

ANNUAL REPORT

OF THE

CITY OF PLAINFIELD

NEW JERSEY



1910

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1910

OFFICERS OF THE CITY OF PLAINFIELD
1910

MAYOR

CHARLES JOEL FISK

MEMBERS OF THE COMMON COUNCIL

RALPH I. TOLLES, President

First Ward

RALPH I. TOLLES

WILLIAM L. GLOAK

Second Ward

FRANK L. HOLT

GEORGE S. CLAY

FRANCIS L. MONTGOMERY

Third Ward

DUNCAN W. TAYLOR

FREDERIC E. MYGATT

CHARLES C. RANDOLPH

Fourth Ward

FRANK DEWITT RANDOLPH

HERBERT BUXTON

WILLIAM W. WILSON

CHAIRMEN OF COMMITTEES

HERBERT BUXTON, Finance

WILLIAM L. GLOAK, Streets and Sewers

DUNCAN W. TAYLOR, Fire and Buildings

FREDERIC E. MYGATT, Public Affairs

CHARLES C. RANDOLPH, Police

FRANCIS L. MONTGOMERY, Street Lighting

FRANK D. RANDOLPH, Alms

GEORGE S. CLAY, License

FRANK L. HOLT, Laws and Ordinances

WILLIAM W. WILSON, Auditing

OFFICERS

JAS. T. MACMURRAY, City Clerk
GEO. B. WEAN, Stenographer
WM. F. ARNOLD, City Treasurer
WM. R. TOWNSEND, Collector
CRAIG A. MARSH, Corporation Counsel
A. J. GAVETT, City Surveyor and Street Commissioner
WM. NEWCORN, Judge of District Court
WM. N. RUNYON, City Judge
PATRICK S. KIELY, Chief of Police
CHAS. B. LUFBURROW, M.D., City Physician
T. O. DOANE, Chief Fire Department and Building Inspector
HORACE G. ADAMS, Clerk of District Court
ALEX. D. AYRES, Overseer of Poor

BOARD OF ASSESSORS

HARRY C. VAN EMBURGH, First Ward
ASA F. RANDOLPH, Second Ward
WILLIAM T. KIRK, Third Ward
HARRY C. RUNYON, Fourth Ward
FRANK H. DUNHAM, Clerk

BOARD OF HEALTH

B. VAN D. HEDGES, M.D., President
FRED W. DUNN, Treasurer
THOMAS S. DAVIS, M.D., Secretary
CHAS. H. DUNHAM
WM. C. KINNEY
L. R. THURLOW, Health Officer
JOHN O'BRIEN, JR., Assistant Health Officer
MISS H. O. MATTISON, Stenographer and Registrar Vital
Statistics
C. A. LAMONT, Inspector
ANDREW CARNEY, JR., Inspector

BOARD OF EDUCATION—OFFICERS

LEANDER N. LOVELL, President

WM. S. TYLER, Vice-President

FLOYD T. WOODHULL, Secretary

FRANK B. CLARK, Clerk

BOARD OF EDUCATION—MEMBERS

JAMES F. BUCKLE

B. VAN D. HEDGES, M.D.

LEANDER N. LOVELL

WILLIAM S. TYLER

FLOYD T. WOODHULL

HENRY M. MAXSON, Superintendent of Schools

PLAINFIELD PUBLIC LIBRARY AND READING ROOM

ALEXANDER GILBERT, President

LEWIS V. F. RANDOLPH, Vice-President

J. HERBERT CASE, Treasurer

WILLIAM M. STILLMAN, Secretary

LEONARD WALDO

WILLIAM F. MERRILL

WILLIAM H. LARRABEE

CORNELIUS B. TYLER

BENJ. VAN D. HEDGES

SHADE TREE COMMISSION

MILES ROBERTS, President

ANDREW J. GAVETT, Secretary

JAMES L. GREENLEAF

CHAIRMEN OF COMMITTEES FOR 1911

HERBERT BUXTON, Finance Committee
WILLIAM L. GLOAK, Streets and Sewers
DUNCAN W. TAYLOR, Fire and Buildings
FREDERIC E. MYGATT, Public Affairs
CHARLES C. RANDOLPH, Police
GEORGE S. CLAY, Street Lighting
FRANCIS L. MONTGOMERY, Alms
WILLIAM W. WILSON, License
FRANK L. HOLT, Laws and Ordinances
JOHN E. DUNN, Auditing

PLAYGROUND COMMISSION

GEORGE P. MELICK, Pres.
HERBERT PARKER, Sec'y
LINDSEY BEST
CHAS B. MORSE
GEORGE L. BABCOCK
HARRY W. MARSHALL

TREASURER'S REPORT OF THE CITY OF PLAINFIELD, N. J., FOR THE YEAR 1910

GENERAL FUND

January 1, 1910: Balance on hand—	
General fund	\$ 53,780.36
Contingent fund.	
1909	18,121.92
High School bonds.	1,917.31
Sinking Funds:—	
Darrow Ave. School	2,113.47
East End fire house	1,623.33
	<u>\$ 77,556.39</u>

RECEIPTS.

State, School and County Taxes.	
Year 1909	\$ 23,317.68
Year 1910	104,830.14
	<u>128,147.82</u>
Taxes	128,147.82
Contingent fund, 1909	10,804.57
	<u>\$138,952.39</u>

CITY TAXES.

Including Polls, Snow and Ice, and Contingent Fund.	
Prior to 1909	\$ 968.44
Year 1909	19,992.45
Year 1910	93,599.67
	<u>\$114,560.56</u>
Contingent fund, 1909	9,084.66
	<u>\$123,645.22</u>
Martin Act Taxes	\$ 63.11
Shade Tree Tax	407.82

Franchise Tax.

5% gross earnings	
Plainfield St. Ry Co	\$ 6,463.82
Plainfield-Union Water Co.	1,644.43
Postal Cable Telegraph Co.	1.91
Somerset and Middlesex Elec. Co.	1,600.07
Somerset and Middlesex Gas Co.	1,444.71
Western Union Telegraph Co.	.03
New York Telephone Company	849.31
	<u>\$ 12,004.28</u>

Interest.

Penalties	\$ 2,815.18
Flagging and curbing	63.73
Int. on bank balance	1,328.88
Accrued interest on street bonds	541.65
	<u>\$ 4,749.44</u>

Licenses.

Liquor	\$ 11,625.00
Hack, peddler, show, etc., ...	2,700.65
Dogs	2,068.75
New street sewer....	25.00
	<u>\$ 16,419.40</u>

DISBURSEMENTS.

Streets.

Macadamizing, grading, repairs, oiling, etc.	\$ 19,418.91
Crosswalks	818.70
Culverts	965.06
Storm sewers	2,100.47
General street cleaning and opening gutters	7,808.59
Cleaning brooks and outlet ditches	347.29
Cleaning storm sewers, culverts and catch basins	416.87
Street sprinkling, water	3,634.06
Removing snow from streets	3,252.67
Removing trees and branches	7.25
Steam roller, repairs and supplies	162.78
Office Assistant	360.00
Assistants and inspectors on street grades, etc	928.39
Blacksmithing, repairs to scraper, etc	131.05
Tools and supplies and telephone	618.84
Oil spreading attachment	162.40
Twentieth Century grader	96.95
City yards and shed.	574.92
Automobile, repairs and supplies	142.29
Work done for companies and individuals furnished	93.00
City dumps, street monuments and street signs	78.12
	<u>\$ 42,118.61</u>

Sewers—Maintenance.

Repair of septic tanks	\$ 1,011.05
Improvement of contact beds	935.36
Care of contact beds.	918.68
Care and emptying of septic tanks	269.17
Attending to screen..	312.23
Laboratory	80.72
Repair and insurance of buildings	46.55
Repairing sewers and appurtenances	173.74
Testing and Flushing sewers	388.26
Water for flushing...	564.07

Fines and Fees.

City Judge	\$ 805.30	
District court	1,017.06	
Board of health	857.00	
		\$ 2,679.36

Repayments.

Amount loaned fire fund	\$ 10,000.00	
Amount loaned poor fund	2,000.00	
Amount loaned street improvement fund..	1,500.00	
		\$ 13,500.00

Police.

Sale of moter cycles..	\$ 80.00	
Special police	22.50	
Call box No. 55	100.00	
Badges	24.75	
		\$ 227.25

Streets.

Public Service Ry. Co. for removing snow..	\$ 700.94	
Public Service Ry. Co. for repairing and oiling of streets....	884.70	
Public Service Ry. Co. for damage to oil wagon	25.00	
Public Service Corporation Gas and Electric. Depts repair of brick pavement	94.07	
Sale of water wagon..	175.00	
Sale of stone, pipe, etc.	32.01	
Use of steam and horse rollers, oil and water wagons, etc., by contractors and others	128.81	
Miscellaneous receipts, repairing ditches, etc., ...	81.30	
		\$ 2,121.83

Sewers.

Carried over for cleaning beds	\$ 4,150.75	
Sewer permits	194.00	
Sale of blue prints, tile, pipe, etc.....	20.70	
		\$ 4,365.45

Shade Tree Commission.

Sale of wood, spraying, trimming, cementing and removing trees for property owners	\$ 447.18	
Cost of setting out new trees (charged to property owners)	189.21	
		\$ 636.39

Sinking Fund.

Darrow Avenue School:—		
By tax	\$ 950.00	
Interest on bonds..	390.00	
Bank interest	52.64	
		\$ 1,392.64
Jefferson Avenue School:—		
By tax	\$ 450.00	
Bank interest	15.12	
		\$ 465.12
Darrow Ave. School Furnishing Acct:—		
By tax	\$ 525.00	
Bank interest	17.64	
		\$ 542.64

Sewers Brought Forward.

Cleaning sewers	74.97	
Inspecting construction of sewer connections	99.00	
Pumping station electric power and light	335.63	
Pumping station, attendance	427.74	
Pumping station, supplies	65.37	
Trunk sewer surveys, record maps, etc....	73.21	
Preliminary surveys for sewer extension, prior to adoption of ordinance	82.22	
Tools and supplies and telephone	39.62	
Engineer in charge of sewers	1,200.00	
Day operator and chemist and consulting engineers...	1,677.67	
		\$ 8,775.26

Police Department.

Regular police	\$ 24,408.52	
Special police	99.20	
Police surgeon, Dr. Lufburrow	200.00	
Department expenses	349.14	
Telephone	39.25	
Department supplies.	127.88	
Plainfield-Union Water Co.	54.70	
Fuel	108.00	
Keep and maintenance of horse.....	288.26	
Carriage and automobile hire	74.55	
Maintenance of prisoners	59.50	
Care of Gamewell alarm system	317.64	
Bicycles	141.75	
Stationery and supplies	101.14	
Laundry	75.94	
Cleaning headquarters	44.00	
Painting and repairing patrol wagon..	76.25	
Removing ashes ...	14.50	
Furniture for headquarters	100.00	
Street signs	52.78	
Repairs to headquarters	48.72	
Miscellaneous	54.00	
		\$ 26,835.72

Shade Tree Commission.

Care of City Park...\$	300.00	
Spraying trees, 1909 account	104.17	
Spraying trees, 1910 account	790.88	
Trimming, removing and cementing trees	1,284.00	
Hauling manure, wood, brush, etc...	345.19	
Watering and mulshing new trees and setting out new trees to replace dying ones	125.78	
Tools, supplies, etc..	142.44	
Work at tree nursery	21.00	
Tree maps, traveling expenses, etc.	25.55	
Cost of setting out new trees (charged to property owners)	189.21	
		\$ 3,328.22

East End Fire House:—

By tax	\$ 1,400.00	
Interest on bonds..	120.00	
Bank interest	35.38	
		\$ 1,555.38
Tax releases	\$ 206.00	
Tax searches	339.00	
		\$ 545.00
Flagging and curbing \$	1,309.52	\$ 1,309.52
Printing, etc.		
Advertising	\$ 75.75	
Returned by Courier-News	30.80	
		\$ 106.55
Taxes not on Assessors' books	4.90	
Assessment, Stebbins place....	27.72	
Rebate, insurance	138.35	
Deputy Collector	74.06	
Railroad and Canal tax, 1909..	3,182.91	
Snow and ice.....	636.16	
Contingent fund, 1909.....	3,919.21	
Contingent fund, 1910.....	17,472.69	

Shade Tree tax.....	\$ 189.21
Street lighting	15,469.80
Printing and stationery.....	4,961.24
Election	1,272.33
Board of Health.....	7,500.00

Salaries.

Assessor, 1st ward...	400.00
Assessor, 2nd ward...	400.00
Assessor, 3rd ward...	400.00
Assessor, 4th ward...	400.00
Assessor's clerk	720.00
City Clerk	1,200.00
City Collector	2,250.00
City Treasurer	1,200.00
Street Commissioner.	1,800.00
Building Inspector ..	500.00
City Judge	1,000.00
Corporation Counsel.	2,000.00
Stenographer	500.00
Custodian of school moneys	550.00
Janitor	660.00
	\$ 13,980.00

State school tax.....	\$ 62,880.03
County tax	67,692.19
	\$ 130,572.22

Firemen Pension Fund, theatre license, etc	\$ 150.00
Transfer Account:—	
To Fire Fund.....	\$ 10,000.00
To Poor Fund.....	2,000.00
To Street Impt.....	1,500.00
	\$ 13,500.00

Division of Contingent Fund of 1909:—	
State school and county taxes	\$ 10,804.57
City and polls.....	9,084.66
Fire department ..	566.97
Poor department ..	136.85
Library	127.59
Schools	1,027.26
Sewer Bonds	97.74
Sewer interest	195.47
	\$ 22,041.13

Contingent Fund, 1910, to Fire dept. to adjust levy.....	\$ 381.43
Rent of offices and council chamber	1,610.00
District Court	2,270.50

Interest.

Brick pavement bonds	\$ 1,395.00
Fire house bonds....	675.00
Police station bonds..	1,102.50
School bonds	11,815.00
Street impt. bonds...	750.00
	\$ 15,737.50
Care city dump	\$ 300.00
Stenographer for the Mayor...	300.00
Miscellaneous expenses	524.94
Flagging and curbing.....	244.31
Water commission	5,542.50
Recording tax sale warrants..	64.25
Snow and ice	832.15

Bonds Retired.

High school furnishing	\$ 1,000.00
Police station	1,000.00
	\$ 2,000.00
Insurance	409.33
Catching and killing dogs.....	280.75
Care of town clock.....	30.00
Play Grounds Commission.....	1,000.00
Deputy Tax Collector.....	182.33
G. A. R. appropriation for Memorial Day	100.00
Repairing ballot boxes.....	62.75
Storing voting machines.....	48.00
Collector's assistants	166.00
Postage Collector's office.....	100.00
Abstract of title, land Johnston avenue.....	45.99
Document file	59.25
Auditing city books.....	2,660.60
Typewriter for Mayor's office..	76.75
Repairing adding machine.....	4.15

GENERAL FUND—CONTINUED

Supplies Street Commissioner.	10.48
Alterations to city offices.....	376.83
Resolutions engrossed	50.00
Legal expenses	95.75
Return of taxes:—	
M. V. Stickle.....\$	3.36
E. B. Hartridge....	15.83
	\$ 19.19
Sinking Fund.	
Tax for Darrow Avenue School	\$ 950.00
Tax for Darrow Avenue School furnishing	525.00
Tax to Jefferson Avenue School	450.00
Tax for east end fire house	1,400.00
	\$ 3,325.00
Cosgrove Detective Agency....\$	1,419.67
T. Timbo, meals police dept., July celebration	185.40
Legislative bills	25.00
Automobile for Street Commissioner	575.00
Dog tags	36.00
Expenses of Chief of Police to convention	100.00
H. C. Van Emburgh, correcting city maps, May 20, 1909 to May 20, 1910.....	125.00
H. C. Van Emburgh, locating buildings on city maps, May 20, 1909, to May 20, 1910....	100.00
City's share of macadamizing streets	2,671.93
City's share of sewer extension	440.27
Bonds bought for sinking fund, 4% City of Plainfield and accrued interest:—	
Darrow Ave. School\$	3,032.67
Fire House	3,032.67
	\$ 6,065.34
Balance on Hand, December 31, 1910—	
Sinking Fund: Invested at 4%:—	
Darrow Ave. School\$	473.44
Darrow Ave. School furnishing	542.64
Jefferson Avenue School	465.12
East End fire house	146.04
	\$ 1,627.24
Balance on Hand:—	
General fund	\$ 59,841.75
Contingent fund, 1910	17,091.26
High School bonds.	1,917.31
Sewer maintenance account for cleaning beds	6,875.49
	\$ 85,725.81
\$428,701.18	\$428,701.18

GENERAL FUND—SUMMARY

ASSETS.

Cash on Hand:—	
General fund	\$ 59,841.75
Contingent fund, 1910.....	17,091.26
Sinking fund:	
Sewer maintenance held.....	6,875.49
Cash Darrow Avenue School..	473.44
Cash Darrow Ave. Furn. Acct..	542.64
Cash Jefferson Avenue School.	465.12
Cash East End Fire House...	146.04
Darrow Avenue Sinking Fund:	
Invest city bonds.....	7,000.00
East End Fire bonds.....	3,000.00
High School bonds.....	1,917.31
Flagging and curbing.....	1,155.89
Uncollected taxes, 1910.....	57,889.76
	<u>\$156,398.70</u>
Uncollected taxes, 1877-1909,	
collection doubtful	\$ 62,058.38

LIABILITIES.

Contingent fund	\$17,091.26
Sinking fund	11,627.24
High School Bonds.....	1,917.31
Sewer maintenance for work,	
1911	6,875.49
Balance	<u>118,887.40</u>

\$156,398.70

FIRE FUND

January 1, 1910.	
Balance on hand.....	\$ 2,036.62

RECEIPTS.

Amount held, Gamewell switch board	\$ 2,735.00
Sale of manure	32.50
Bank interest	28.79
Transfer from General Fund..	10,000.00
Bills payable	12,000.00

Taxes Collected.

Due prior to 1909....	\$ 3.87
Year 1909	5,981.86
Year 1910	29,121.14
	<u>\$ 35,106.87</u>
Contingent fund, 1909\$	566.97
Contingent fund, 1910	381.43
	<u>\$ 36,055.27</u>

DISBURSEMENTS.

Salaries	\$ 19,806.22
Repairs to buildings.	530.17
Repairs to apparatus	696.96
Supplies	1,071.64
Keep of and shoeing horses	3,344.83
Rent, lot and horses.	98.00
Laundry	235.45
Fuel	648.96
Care of fire alarm...	1,305.35
Installing whistle ...	724.44
Battery Current	46.95
Four fire alarm boxes	500.00
Installing boxes, supplies and work, alarm system	476.45
Tappers and gongs..	102.50
Exchange of horse...	200.00
Convention expenses.	75.00
Pension fund	184.88
Interest	451.67
Equipment, incidents	323.37
Insurance	29.65
Hydrant rental	5,205.00
Printing & stationery	72.87
One thousand feet of hose	1,000.00
City physician	32.00
Automobile for chief.	600.00
Incidentals	110.86
Steam for whistle...	179.25
Two miles of wire..	106.00
	<u>\$ 38,168.47</u>
Gamewell switch board.....	\$ 2,735.00
Transferred to general fund...	10,000.00
Bills payable	11,500.00
Cash balance Dec. 31, 1910....	484.71

\$62,888.18

\$ 62,888.18

FIRE FUND—SUMMARY

ASSETS.

Cash on hand ..	\$ 484.71
Uncollected taxes, 1910.....	7,497.43
	<u>\$ 7,982.14</u>

LIABILITIES.

Bills payable	\$ 7,000.00
Balance	982.14
	<u>\$ 7,982.14</u>

NEW FIRE HOUSE—EAST END

January 1, 1910:		Expenses	\$ 1,936.70
Balance	\$ 2,297.82	Balance on hand	394.65
Bank interest received.....	33.53		
	<u>\$ 2,331.35</u>		<u>\$ 2,331.35</u>

REAL ESTATE AND EQUIPMENT VALUATIONS

Headquarters Real Estate Valuation.....	\$ 13,405.52
West Second Street Real Estate Valuation	9,550.00
West Fourth Street Real Estate Valuation	5,462.87
East End Real Estate and Equipmen	14,638.88
	<u>\$ 43,057.27</u>
Equipment and Personal Property.....	\$ 29,435.00
Alarm System	11,735.00
	<u>\$ 84,227.27</u>
Uncollected Taxes, considered doubtful.....	\$ 3,850.11

POOR FUND

January 1, 1910.	
Balance on hand.....	\$ 182.97
RECEIPTS.	
From the Overseer.....	143.60
Transferred from the general fund	2,000.00
Bills payable	1,500.00
Taxes Collected.	
Prior to 1909.....	\$ 1.08
Year 1909	1,443.90
Year 1910	6,793.93
	<u>\$ 8,238.91</u>
Contingent fund, 1909	136.85
	<u>\$ 8,375.76</u>

DISBURSEMENTS.

City Alms House.

Salary of superintendent and matron...\$	480.00
Food and provisions..	1,074.04
City water	27.00
Fuel	335.64
Clothing	139.24
Repairs	166.63
Services	504.81
Utensils and supplies..	503.06
Burials	15.00
Barber	49.20
Expenses of superintendent	12.43
Insurance on buildings and stock....	72.75
	<u>\$ 3,379.80</u>

Outside Poor.

Provisions	\$ 373.27
Fuel	20.50
Rents	431.50
Board and care.....	423.41
Insanes	116.35
Transportation	60.94
Burials	10.00
Professional and other services	48.81
	<u>\$ 1,484.78</u>
Overseer of the Poor..\$	800.00
Salary of City Physician	400.00
Muhlenberg Hospital, care of indigent patients	1,500.00
Telephone service ..	28.31
Interest on notes....	102.08
Stationery, stamps and printing	19.69
Horse	80.00
	<u>\$ 7,794.66</u>
Transfer to general fund.....	\$ 2,000.00
Bills payable	2,000.00
Balance on hand.....	407.67
	<u>\$ 12,202.33</u>

\$ 12,202.33

\$ 12,202.33

POOR FUND—SUMMARY

ASSETS.

Cash on hand.....	\$ 407.67
Uncollected taxes, 1910.....	1,750.40
	<u>\$ 2,158.07</u>
Uncollected taxes, considered doubtful	\$ 509.95

LIABILITIES.

Bills Payable	\$ 1,000.00
Balance on hand	1,158.07
	<u>\$ 2,158.07</u>

STREET IMPROVEMENT—BRICK PAVEMENT

January 1, 1910:	
Balance on hand.....	\$ 1,935.56
	<u>\$ 1,935.56</u>

Assessment collected on account of bonds.....	\$ 1,865.45
Bonds outstanding	31,000.00

Account contract	\$ 250.00
Balance	1,685.56
	<u>\$ 1,935.56</u>

STREET IMPROVEMENT—MACADAMIZING

January 1, 1910:	
Balance on hand:	
Year 1908	\$ 1,094.83
Year 1909	1,257.19

RECEIPTS.

Issue of bonds due 1913.....	\$ 30,000.00
Assessment collected	9,667.19
Interest on balance.....	71.82

\$ 42,091.03

Bonds outstanding, due 1911....	\$ 5,000.00
Bonds outstanding, due 1912....	4,000.00
Bonds outstanding, due 1913....	30,000.00

\$ 39,000.00

DISBURSEMENTS.

Bonds retired	\$ 10,000.00
Interest on bonds	950.00
Contract	381.77
Commissioners	100.00
Contract, 1910	12,389.34

Balance:	
Year 1908	\$ 61.41
Year 1909	597.85
Year 1910	17,610.66

\$ 18,269.92\$ 42,091.03

SEWER BOND AND INTEREST ACCOUNT

January 1, 1910:	
Balance on hand, sewer bond and interest	\$ 9,722.86
Balance on hand, sewer extension	201.30

RECEIPTS.

Sewer Bond Taxes Collected.	
Due prior to year 1909\$	.93
Due, year 1909.....	1,031.36
Due, year 1910.....	4,852.52

	\$ 5,884.81
Contingent fund, 1909	97.74
	<u>\$ 5,982.55</u>

Sewer Interest on Obligations.

Due prior to year 1909\$	1.24
Due, year 1909.....	2,062.75
Due, year 1910.....	7,764.64

	\$ 9,828.63
Contingent fund, 1909	195.47
	<u>\$ 10,024.10</u>

Bank interest on balance.....	\$ 183.10
Assessments and interest collected	14,798.70
Bills payable for sewers, 1910..	8,000.00

\$ 48,912.61

DISBURSEMENTS.

Bonds retired, Nos. 53, 54, 55 and 56.....	\$ 4,000.00
Bonds retired, Nos. 5 and 6	2,000.00
	<u>\$ 6,000.00</u>

Interest paid, coupons on bonds	\$ 9,075.00
Interest paid, interest on bills payable....	295.86
	<u>\$ 9,370.86</u>

Bills payable	\$ 15,000.00
Sewer work, 1910.....	8,002.60
Balance on hand, sewer bond and interest account.....	10,539.15
	<u>\$ 10,541.75</u>

Less sewer 1910, short balance	2.60
--------------------------------------	------

\$ 48,912.61

SEWER BOND AND INTEREST ACCOUNT—SUMMARY

ASSETS.

Cash on hand, sewer bond and interest account	\$ 10,539.15
Sewer Plant, as carried on books	297,229.69
Sewer extension, year 1910.....	8,002.60
Uncollected Taxes.	
Sewer bonds	\$ 1,250.56
Sewer interest	2,000.31
	<u>\$ 3,250.87</u>
	<u>\$319,022.31</u>

LIABILITIES.

Bonds Outstanding:	
First issue	\$ 68,000
Second issue	41,000
Third issue	62,000
Fourth issue	43,000
	<u>\$214,000.00</u>
Bills payable, 1910.....	8,000.00
Balance created by bonds paid	62,000.00
Balance	<u>35,022.31</u>
	<u>\$319,022.31</u>

LIBRARY FUND

January 1, 1910.

Balance on hand.....\$ 7,731.76

RECEIPTS.

Interest on Bank balance..... 139.62
 Fees and fines..... 211.02

Taxes Collected.

Prior to 1909.....\$.77
 Year 1909 1,340.25
 Year 1910 5,821.23

\$ 7,162.25
 Contingent fund, 1909 127.59
\$ 7,289.84
\$ 15,372.24

Expenses\$ 7,571.96
 (Warrants drawn on the City Treasurer).
 Balance 7,800.28

\$ 15,372.24

LIBRARY FUND—SUMMARY

ASSETS.

Cash on hand.....\$ 7,800.28
 Uncollected taxes, 1910..... 1,502.48
\$ 9,302.76
 Uncollected taxes, collection considered doubtful\$ 450.50

LIABILITIES.

Balance\$ 9,302.76
\$ 9,302.76

BONDS OUTSTANDING AND FLOATING DEBT

First Issue of Sewer Bonds, 4 per cent.....	\$124,000.00	
Amount Retired	56,000.00	
		\$ 68,000.00
Second Issue of Sewer Bonds, 4 per cent.....		\$ 41,000.00
Third Issue of Sewer Bonds, 4½ per cent.....	68,000.00	
Amount Retired	6,000.00	62,000.00
Fourth Issue of Sewer Bonds, 4 per cent.....		\$ 43,000.00
Total Outstanding Sewer Bonds		\$214,000.00
Brick Pavement Bonds		31,000.00
Street Macadamizing Bonds, 5 per cent., total issue...	\$120,000.00	
Amount Retired	81,000.00	
		\$ 39,000.00
High School Bonds, 4 per cent.....	\$123,000.00	
High School Furnishing Bonds	\$ 13,000.00	
Amount Retired	3,000.00	
		\$ 10,000.00
Darrow Avenue School, 4½% Sinking Fund Bonds....	95,000.00	
Darrow Ave. School Furnishing 4% Sinking Fund Bonds	10,000.00	
Jefferson Avenue School 4% Sinking Fund Bonds....	45,000.00	
		\$283,000.00
Police Headquarters Bonds, 4½%.....	\$ 25,500.00	283,000.00
Amount Retired	1,500.00	24,000.00
Fire House Bonds, 4½% Sinking Fund.....		15,000.00
		\$606,000.00
Less Sinking Fund invested in bonds (of the City of Plainfield, N. J.)	\$ 10,000.00	
Cash on hand	1,627.24	
		\$ 11,627.24
		\$594,372.76
		\$594,372.76

FLOATING DEBT.

Fire Department against uncollected taxes.....	\$ 7,000.00
Poor Department against uncollected taxes.....	1,000.00
Sewers, year 1910, work not completed.....	8,000.00
	\$ 16,000.00
	\$610,372.76

BOND TABLE

Year due.	Sewer.	High School.	Police Head-quarters.	Brick Pavement.	Amount due annually to be raised by Tax.
1911	\$2,000	\$1,000	\$1,000	.....	\$4,000
1912	6,000	4,000	1,000	\$1,000	12,000
1913	6,000	6,000	1,000	2,000	15,000
1914	6,000	6,000	1,000	2,000	15,000
1915	6,000	6,000	1,000	2,000	15,000
1916	6,000	6,000	1,000	2,000	15,000
1917	6,000	6,000	1,500	2,000	15,500
1918	6,000	6,000	1,500	2,000	15,500
1919	6,000	6,000	1,500	3,000	16,500
1920	6,000	6,000	1,500	3,000	16,500
1921	6,000	5,000	1,500	3,000	15,500
1922	6,000	5,000	1,500	3,000	15,500
1923	6,000	11,000	1,500	3,000	21,500
1924	7,000	7,000	1,500	3,000	18,500
1925	7,000	6,000	1,500	.....	14,500
1926	7,000	6,000	1,500	.....	14,500
1927	7,000	6,000	1,500	.....	14,500
1928	7,000	6,000	1,500	.....	14,500
1929	7,000	6,000	.....	.....	13,000
1930	7,000	6,000	.....	.....	13,000
1931	7,000	6,000	.....	.....	13,000
1932	7,000	6,000	.....	.....	13,000
1933	7,000	4,000	.....	.....	11,000
1934	7,000	.....	.....	.....	7,000
1935	8,000	.....	.....	.....	8,000
1936	8,000	.....	.....	.....	8,000
1937	8,000	.....	.....	.....	8,000
1938	8,000	.....	.....	.....	8,000
1939	8,000	.....	.....	.....	8,000
1940	8,000	.....	.....	.....	8,000
1941	8,000	.....	.....	.....	8,000
1942	7,000	.....	.....	.....	7,000
	<u>\$214,000</u>	<u>\$133,000</u>	<u>\$24,000</u>	<u>\$31,000</u>	<u>\$402,000</u>
Total Serial Bonds					\$402,000.00
To Be Raised Annually by Tax:—					
Sinking Fund—\$1,300—due 1918, Fire House Bonds.....					15,000.00
Sinking Fund—\$525—due 1924, Darrow Ave. School, furnishing bonds....					10,000.00
Sinking Fund—\$950—due 1958, Darrow Avenue School Bonds.....					95,000.00
Sinking Fund—\$450—due 1959, Jefferson School Bonds.....					45,000.00
Total Amount of Bonds Outstanding.....					\$567,000.00
Street Improvement Bonds (against assessments).....					39,000.00
					<u>\$606,000.00</u>
Less Sinking Fund on hand.....					\$ 11,627.24

Respectfully submitted,

WILLIAM F ARNOLD

City Treasurer.

Dated, Plainfield, N. J. December 31, 1910.

Valuation for 1910, \$24,412.389.00.

1910 Tax Rate, \$1.65.

REPORT OF COMMITTEE ON SEWERS

Plainfield, N. J., Dec. 30, 1910

To the Honorable Common Council of the City of Plainfield,

GENTLEMEN:—We submit herewith our annual report of work done and moneys received and expended during the year 1910.

REPORT ON SEWERS

The total length of sanitary sewers, including those constructed by private parties under city supervision, is now 46.48 miles. The original system, constructed in 1894-1895, thought to be quite complete at that time, consisted of only 23.65 miles of sewers.

One hundred and ninety-four connections were made with the sewers during the year, the total number now being 3,516. Thirty-one of the new connections were made with sewers tributary to the Randolph road pumping station, making a total of 143 connections draining to this station. The pumping plant has operated in an entirely satisfactory manner during the year, and it is proposed to install machinery of a similar type at the Monroe Avenue station.

The average quantity of sewage pumped daily was 53,000 gallons and the average daily consumption of electric current was 16.9 kilowatt hours, at an average cost per day of 90 cents.

Several large growths of roots were removed from the sewers, and 21 stoppages occurred in house connections, many of which were also caused by root-growths. Cast iron pipe was substituted for the vitrified pipe connections in many cases.

Most of the time of one man is occupied in testing the flush tanks and valves and inspecting and flushing the sewers. Investigations are being made to ascertain the relative efficiency and economy of the automatic flush tanks and hand-operated valves.

On October 10, 1910, a contract was awarded to James A. Christie for the construction of about three miles of sanitary sewers draining to pumping stations at Monroe Avenue and at Plainfield Avenue, the Common Council reserving the right to omit the construction of the latter station and of the sewers tributary to it. Mr. Christie began work promptly and is carrying it on in a very thorough and satisfactory manner. He has been granted an extension of time to June 30, 1911, the contract having been awarded too late to allow of its completion this year.

The first bids for pumping machinery were rejected by the Common Council, owing to the lowest bid being somewhat irregular. Proposals were

received, pursuant to a new advertisement, and these are referred by the committee to the council of 1911.

Last winter, part of the septic tank roofs gave way under the weight of snow and it was necessary to replace some of the timbers, to put in additional posts and to renew part of the tar and gravel roofing.

The disposal works were operated during the first part of the year under the direction of Hering & Fuller, sanitary experts, and throughout the year in accordance with their views.

The plant has been very carefully operated and the results obtained have been generally satisfactory, but the rapid increase in the number of connections and in the volume of sewage now being treated at the works has resulted in the greatly increased clogging of the primary contact beds, all these having been operated at a higher rate and for a longer time than were the original four primary beds before the material in them was washed.

One of the inevitable features of the operation of contact beds is this progressive loss of capacity, due to clogging, which begins almost as soon as the beds are put in service. This clogging became serious two years ago, and Hering & Fuller were engaged to make an investigation to ascertain if some variations in the methods of operation would permit of the longer use of the beds.

Systematic analyses were made by Mr. R. S. Lamphear, manager and chemist, of the sewage, and of the septic, primary and final effluents, and such variations were made in the method of operating the tanks and contact beds as were indicated by the analyses.

As a further temporary expedient, ditches were dug in the primary beds, with extra tile drains and coarse stone filling. Four additional trenches were excavated and filled this year, and by this means the necessity for immediate, extensive improvement has been postponed. The feasibility of these temporary expedients, however, is now entirely exhausted.

The time has now unquestionably arrived when the common council must decide whether the present plant shall be improved and extended or new works built in another locality, either by this city alone or in connection with other places.

We therefore recommend that this question be considered early in 1911, and if it is thought best to retain the present location, that expert advice be obtained to decide what changes in the present plant, and what additions to it should be made; and, whether any of the recent improvements in sewage disposal can be profitably adopted.

The septic tanks were operated as follows:

No. 1—From February 21 to August 8; from October 30 to November 10; from December 9 to December 13. 186 days.

No. 2—From August 9 to October 29; from November 11 to December 8. 110 days.

No. 3—From August 9 to October 29; from November 11 to December 8. 110 days.

No. 4—From March 9 to August 8; from October 30 to November 10; from December 9 to December 13. 169 days.

Last February the septic tanks were emptied and the sludge and scum

were dried on one of the lower sand filters. After reserving sufficient sludge for use on the city poor farm, the remainder was carted away by farmers. The hauling away of the sludge was done this year without expense to the sewer department and without nuisance.

The quantity of sludge and scum in the tanks on December 13 was as follows:

<i>Tank</i>	<i>CUBIC YARDS</i>	
	<i>Scum</i>	<i>Sludge</i>
1	114	135
2	106	37
3	347	177
4	249	301

Total quantity of sewage from time of emptying tanks to December 13, 1910, 472,400,000 gallons.

Total amount of wet sludge and scum, 1,466 cubic yards or 3.1 cubic yards per million gallons.

The general methods of operating the contact beds has been to drain each bed immediately after being filled. It is believed that the greatest amount of nitrification of the organic matter occurs at the times when the beds are filling and standing empty.

The surface of the contact beds was kept in a neat condition by the regular removal of scum and weeds.

The quantities of scum and material removed from the contact beds during the past two years are given in the following table. During 1910 the primary beds were filled from below, so no scum formed on them.

Scum and material removed from the surface of the contact beds in 1909 and 1910:

<i>Month</i>	<i>CUBIC YARDS</i>			
	1909		1910	
	<i>Pri.</i>	<i>Sec.</i>	<i>Pri.</i>	<i>Sec.</i>
January	7.00	1.25		1.90
February	21.40	1.80		44.06
March	40.10			11.43
April	21.10	6.90		53.10
May				
June	23.90	13.00		14.24
July	29.50			25.30
August	24.20	6.00		41.21
September	11.90			10.33
October	15.90	26.60		39.04
November	18.80			47.05
December				49.18
Total	213.80	55.50		336.84

Approximate total flow of sewage, 625,100,000 gallons. Average quantity of scum removed from contact beds, 0.54 cubic yards per million gallons of sewage.

A summary of the results obtained is given in the accompanying table.

CITY OF PLAINFIELD, N. J.
Sewage Purification Works
Monthly Summary of Results.

R. S. Lanphear,
Manager and Chemist.

+ Putrescible
 O Non-putrescible
 L.H. figures - undiluted
 A.H. " diluted, 1:1

1910.	Weir Reading — Million Gals.	Septic Tanks in Service (Mgs.)	Parts per Million.										Putrescibility				Bacteria.							
			Suspended Matter.			Oxygen Consumed.			Nitrogen as Nitrates.		Nitrogen as Nitrites.		Millions per Cubic Centimeter.				Per Cent Removed.							
			Screened Sewage Effl.	Septic Effl.	Prim'y Effl.	Screened Sewage Effl.	Septic Effl.	Prim'y Effl.	Screened Sewage Effl.	Septic Effl.	Prim'y Effl.	Screened Sewage Effl.	Septic Effl.	Prim'y Effl.	Screened Sewage Effl.	Septic Effl.	Prim'y Effl.	Filters Alone System						
Dec. 1909	1.7*	2-4	135	57	31	13	82	58	28	12	0.6	4.0	0.17	0.09	+	+	0	0	2.43	0.81	0.42	0.24	70	90
Jan. 1910	1.9*	3-4	116	50	18	7 ⁺	74	56	27	10	0.9	3.5	0.16	0.08	+	+	0	0						
Feb.	1.85*	1-2-3	114	50	20	12	74	53	25	14	0.9	2.3	0.12	0.04	+	+	0	0	1.27	0.95	0.51	0.19	80	85
Mar.	1.7*	1-3-4	133	58	19	9	78	56	26	11	0.4	2.9	0.13	0.08	+	+	0	0	2.04	2.44	1.09	0.52	79	74
Apr.	1.7*	1-4	138	45	24	12	71	50	27	12	0.5	4.4	0.10	0.20	+	+	0	0	2.27	1.43	0.79	0.38	73	83
May	1.65*	1-4	168	42	19	7	74	52	27	11	0.2	3.1	0.03	0.17	+	+	0	0	2.66	1.44	0.82	0.47	67	81
June	1.7	1-4	156	47	32	10	72	51	34	12	0.1	2.9	0.01	0.26	+	+	0	0	2.87	1.40	0.77	0.44	69	81
July	1.7*	1-4	142	65	32	16	62	49	29	12	0.1	2.2	0.01	0.27	+	+	+	+	2.67	1.26	0.78	0.44	65	83
Aug.	1.65	1-2 3-4	146	55	25	7	60	46	26	8 ⁺	0.3	3.1	0.01	0.16	+	+	0	0	2.96	1.69	1.09	0.71	59	76
Sept	1.7-2-3		152	55	38	12	72	50	29	9 ⁺	0.2	2.9	0.01	0.15	+	+	0	0	2.59	1.43	0.81	0.46	68	82
Oct.	1.5	1-2 3-4	196	60	31	11	86	55	31	11	0.3	3.4	0.04	0.14	+	+	0	0	2.22	1.09	0.56	0.33	70	85
Nov.	1.6*	1-2 3-4	271	69	32	11	100	60	29	10	0.8	4.4	0.14	0.15	+	+	0	0	2.37	1.57	0.97	0.51	67	78

The detailed statement of receipts and disbursements is as follows:

RECEIPTS	
Regular appropriation.....	\$11,500 00
Carried over for repairs.....	4,150 75
Received for sewer permits.....	194 00
Received for blue prints, tile, pipe, etc	20 70
	\$15,865 45
DISBURSEMENTS	
Repair of septic tanks.....	\$ 1,011 05
Improvement of contact beds.....	935 36
Care of contact beds.....	918 68
Care and emptying of septic tanks.....	269 17
Attending to screen.....	312 23
Laboratory.....	80 72
Repair and insurance of buildings.....	46 55
Repairing sewers and appurtenances.....	173 74
Testing and flushing sewers.....	388 26
Water for flushing.....	564 07
Cleaning sewers.....	74 97
Inspecting construction of sewer connections.....	99 00
Pumping station, electric power.....	323 63
Pumping station, electric light.....	12 00
Pumping station attendance.....	427 74
Pumping station, supplies.....	65 37
Trunk sewer surveys, record maps, etc.....	73 21
Preliminary surveys for sewer extension, prior to adoption of ordinance.....	82 22
Tools and supplies.....	16 57
Telephone	23 05
Engineer in charge of sewers.....	1,200 00
Manager and chemist and consulting engineers.....	1,677 67
Balance carried over for repairs of contact beds.....	6,875 49
	\$15,650 75

Amount paid on account of sanitary sewer construction in 1910, \$8,002.60.

Respectfully submitted,

WILLIAM L. GLOAK,
CHARLES C. RANDOLPH,
HERBERT BUXTON,
FRANCIS L. MONTGOMERY,
FRANK D. RANDOLPH,
Committee on Sewers.

ANDREW J. GAVETT,
Engineer in Charge.

REPORT OF COMMITTEE ON STREETS.

Plainfield, N. J., December 28, 1910.

To the Honorable Common Council of the City of Plainfield,

GENTLEMEN:—We submit herewith our annual report of work done and moneys received and expended during the year 1910.

NEW MACADAMIZING

The contracts for new macadamizing awarded in 1910 probably included a larger amount of work than in any previous year.

In these streets the new departure of laying the upper course with bituminous binders, inaugurated in 1909, was continued. The binders used were Bermudez Asphalt, Texaco and Tarvia X, applied hot, by hand spreaders instead of by the tar-spreading wagons previously used.

The repair work on the south side of West Front Street, between Grant Avenue and Mariners Place, was done in this manner last year, but a coat of Tarvia B was added last spring. This pavement has proved very satisfactory indeed, except that it becomes at times quite slippery, which trouble may be remedied by adding a coating of screenings.

Some trouble from bleeding was experienced with the contract roads constructed in 1909, the liquid asphalt coming to the surface in spots during hot weather, requiring the addition of fine stone to cover it. This additional material will probably soon wear off to the original finished surface.

The two contracts for new macadamizing were awarded on September 6, 1910, the first to Mobus & Burke, for Essex Street, between Darrow and Spooner Avenues, and for Putnam Avenue, between Webster Place and Woodland Avenue, the former street being completed. The second contract was let to John McNabb for the following streets:

Thornton Avenue, from Park Avenue to Hillside Avenue; West Fourth Street, from Monroe Avenue to Clinton Avenue; Stebbins Place, Prescott Place, South Second Street, from a point 50 feet east of Morris Street to Clinton Avenue; Randolph Road, from Park Avenue to Woodland Avenue; Johnston Avenue, Jackson Avenue; Netherwood Avenue, from North Avenue to East Second Street, the three last named streets being completed. Extensions of time were granted to both contractors, the contracts having been awarded too late in the season to allow of their completion before cold weather.

DUST PREVENTION

The work done this year for the purpose of dust prevention, was mainly along the lines found successful in 1909, and consisted of the surface application of Tarvia B, principally on Park and South Avenues, Dustoline on North Avenue, East Front and adjoining streets and Standard Road Oil and Texas Oil on many other streets.

Most of the oiled streets should have had a second treatment, but other necessary work prevented the expenditure of the money for this purpose.

Two carloads of Standard Road Oil were spread by the Saybolt pneumatic wagons, by which method the oil is forced out in a fine spray under air pressure. This process has much to recommend it, as the street can be used immediately after the application of the oil and much more area can be covered with a given amount of oil. The treatment, however, should be renewed every month or six weeks to be thoroughly effective. This work was done by contract, the price being 12-10 cents per square yard, including cost of oil.

On the streets oiled by day labor, the material was spread by the city's oil sprinkling wagons, using about 0.35 gallon of Dustoline, 0.33 gallon of Standard Road Oil, 0.38 gallon of Texas road oil and 0.375 gallon of Tarvia B, per square yard.

Immediately after applying the oil and Tarvia, they were covered with fine stone or roofing slag so that the road might be opened sooner to travel and a longer life given to the dust preventing material. The cost of a coating of Tarvia B, including labor and stone or slag, was $4\frac{1}{4}$ cents per square yard.

The streets not treated with oil or Tarvia were sprinkled with water, and many of those oiled in the early part of the season were watered after the oil had worn off. The cost of the water sprinkling was \$3,634.06.

From our experience during the last two years it would seem that the expense of treating all the streets so that they should be dustless during the entire season would be more than the city could now afford.

It is suggested to the committee that the cost of treating the streets with Tarvia B, be assessed on the abutting property owners, as is done in Westfield.

The dust preventive treatment this year covered an area of 402,630 square yards, a length of 156,195 linear feet, or 29.58 miles. The cost of the oil and Tarvia was \$5,086.93 and the amount paid for teams and labor applying the materials, was \$1,585.62, an average total cost of 1.66 cents per square yard. The cost of slag and stone is not included in above amounts, as they were not used on all of the streets.

The principal trouble with oiled roads is the pitting, or formation of small depressions in the surface.

These holes were repaired by filling them with stone and binder dust and then rolling the patches well with the steam roller. Such holes in Tarvia B work when taken in time and filled with stone and Tarvia, were satisfactorily patched

REPAIR WORK

The most important repair work done this year was on Richmond, West Front, East Second, West Fourth, East Fifth and West Seventh streets and on Watchung, South, Woodland, Belvidere, Evergreen, Grant and Clinton avenues. Minor repairs were made on most of the streets which were oiled and on a number of other streets.

Slag, from the Pond Machine Tool Works, was placed on part of Lyman Place and on West Fourth Street west of Clinton Avenue, the roadways having been first excavated to the proper grade. Slag has also been used to raise the gutters and sides of streets macadamized only in the centre.

The cost of repairing the openings made in the brick pavement in front of the Frost building was paid by the companies and individuals for the use of whom the openings were made, and this item is included in the statement of expenditures on that street. The cost of work done for contractors on other streets is also similarly shown on the schedule for those streets.

ASH DUMPS

Two regular dumps were provided for the dumping of ashes and rubbish, one on East Seventh Street, east of Leland Avenue, and the other in the rear of the new Jefferson School on Myrtle Avenue, small ponds being filled in both localities. Some filling was also done in the vicinity of Rose Street and Randolph Road and none of these dumps has caused complaint.

STREET OPENINGS

The proceedings for opening Kensington Avenue, from its present terminus to Park Avenue [the ordinance having been adopted in 1908], have progressed as far as treating with the property owners; the next step is the appointment of commissioners to estimate and assess damages and benefits.

An ordinance was adopted October 20, 1910, for opening Astor Place to Hunter Avenue, and we recommend that commissioners be appointed for this street also, as it has been used as a street for a number of years and was supposed already to be open by residents in the vicinity.

FLAGGING AND CURBING

A new ordinance was adopted in July relating to the construction of sidewalks and curbs, but it was late in the fall before the legal forms of notice to be served were ready, so about half of the work called for remains uncompleted.

The usual large number of notices to relay uneven sidewalks were served and have been generally complied with, but there are still a great many sidewalks which are irregular and far from being a credit to the city.

Concrete walks continue to grow in favor and seem to keep their line and grade better than stone walks.

Many sidewalks and curbs, mostly of concrete, were laid by property owners' voluntarily. Much of this work was done in the development of new tracts of land in the southerly and easterly sections of the city. This work is generally of good character, but some of it has already begun to break up—a hint to prospective purchasers of improved building lots to test the quality of the concrete sidewalks before concluding the bargain.

About 31,100 linear feet of sidewalks and 14,150 linear feet of curbing were constructed.

STORM SEWERS

The third and last section of the Richmond Street storm sewer, from North Avenue to East Second Street, was completed this year, relieving this street from its flood troubles, except on the occasions when Green Brook leaves its banks and flows down Richmond and Berkman streets, into Cedar Brook. The benefit of this sewer is especially appreciated at East Second Street, where formerly the street railway track almost completely blocked the culvert.

The storm sewers did not require much cleaning this year, but considerable work was necessary to clean out the outlet brooks and ditches, which become silted up every year and are usually attended to in the winter, when other work cannot be done.

The total length of storm sewers is now 6.03 miles.

REMOVAL OF SNOW

Last winter the Street Department expended \$2,970 for the removal of snow, exclusive of the cost of cleaning sidewalks which was charged against the property owners. Of the above amount, the street railway company refunded \$700.94, or one half the cost of removing snow from business streets in which street railway tracks are laid. A large item of expense was the removal of ice from gutters.

In order to make the sidewalks passable as early after snow storms as possible, snow plows were used. These plows did not thoroughly clean the walks, it being expected that the residents would complete the work, but in many cases they failed to do so, and the city was obliged to finish the walks, the cost being charged to the abutting property.

In cases where snow was removed from sidewalks by the city several times last winter, circular letters were sent to the owners requesting them either (1) to have their walks cleaned immediately after each storm, or (2) to authorize the city to have the work done without waiting for the time to elapse required by the ordinance. All replies received so far, request the city to do the work.

During the winter of 1909-1910, 159,767 linear feet of sidewalks were cleaned by the city, and the cost of the work, with clerical expenses, amounting to \$644 30, was assessed against 650 properties, the price per foot varying in each storm.

The new Twentieth Century Grader has proved a very efficient sidewalk cleaner as well as a gutter scraper for snow or dirt.

STREET NUMBERS

There are still several hundred buildings in the city either with wrong numbers or without any. Many of the owners have been notified to place the proper numbers on their buildings, but most of them have failed to do so, some even refusing to make any change. As the map referred to in the original numbering ordinance was superseded by later ones, the late Corporation Counsel, Craig A. Marsh, at our request, prepared a new ordinance based on the present tax maps, and the ordinance was adopted by the Common Council on December 5, 1910.

The way is now clear for enforcing this ordinance, and we recommend to the Council of 1911 that notices be sent to all persons not having correct numbers on their buildings and that all delinquents be brought before the City Judge.

While the City Collector is the custodian of the official maps, the Police and Street departments have always been looked to for the enforcement of the street numbering ordinance.

STREET SIGNS

Fifty-six new enameled street signs were erected, mostly to replace damaged ones. The cost of these signs including the labor of putting them up, was about 75 cents each.

CROSSWALKS AND CULVERTS

Seventeen new crosswalks were laid during the year, and requests have been made for many more. We believe that the laying of crosswalks should follow promptly in every case after the construction of sidewalks.

Six new culverts have been constructed and seven have been rebuilt. Some progress has been made in the substitution of cast iron covers for those of stone, but many of the latter remain, and an unusual number of them have been broken this year by heavy loads. Eight extra cast iron covers have been bought for use in making repairs to stone culverts during this winter.

CITY YARDS

A lot on Scott Avenue was rented in May at twenty-five dollars per month, and a shed was erected thereon, at a cost of \$333.50, for sheltering the street sprinklers, oil spreaders, street scraper, etc. The yard and store house at West Third Street and Plainfield Avenue serve for the storage of crushed stone, culvert and crosswalk material, tools not in use, etc. The steam roller is housed at the sewage disposal works, as are the spraying wagon and engine used by the Shade Tree Commission.

MISCELLANEOUS

There are now 52.67 miles of macadam streets, 0.78 mile of brick pavement and 0.07 mile of concrete pavement.

Fourteen stone and 15 iron monuments have been set and 32 manholes have been marked to establish street lines

The detailed statement of receipts and disbursements for streets is as follows:

RECEIPTS

Appropriation.....	\$40,000 00
Public Service Railway Co., for removing snow.....	700 94
Public Service Railway Co., for repair and oiling of streets.....	884 70
Public Service Railway Co., for damage to oil wagon.....	25 00
Public Service Corporation, Gas Dept., for repair of brick pavement.....	11 30
Public Service Corporation, Electric Dept., for repair of brick pavement.....	82 77
Sale of Water Wagon.....	175 00
Sale of stone, pipe, etc.....	32 01
Use of steam and horse rollers, oil and water wagons, etc., by contractors and others.....	128 81
Removing snow, hauling water, etc.....	28 58
Repair of ditches, oiling, etc.....	45 72
Demurrage refunded, overpayment, etc.....	7 00
Total.....	<u>\$42,121 83</u>

DISBURSEMENTS—STREETS

Oxford Place.....	\$ 63 81
Orange Place.....	23 41
Elm Place.....	55 74
Westervelt Avenue.....	83 04
Sandford Avenue.....	80 69
Norwood Avenue.....	51 75
Watchung Avenue.....	589 24
East Third Street.....	170 24
Netherwood Avenue.....	24 89
Washington Street.....	99 06
Park Avenue.....	910 92
Sycamore Street.....	51 06
East Fifth Street.....	431 09
East Sixth Street.....	31 07
East Seventn Street.....	270 04
Crescent Avenue.....	75 82

East Ninth Street.....	61 19
Richmond Street.....	444 18
East Fourth Street.....	39 64
Carlton Avenue.....	47 78
Kensington Avenue.....	120 31
Webster Place.....	52 11
First Place.....	30 86
Second Place.....	30 87
Third Place.....	34 53
Evergreen Avenue.....	275 49
Hillside Avenue.....	150 33
Belvidere Avenue.....	1,045 29
Park Terrace.....	12 17
Putnam Avenue.....	14 51
Berkeley Avenue.....	45 74
Ravine Road.....	67 76
Franklin Place.....	54 00
Prospect Avenue.....	192 07
Martine Avenue.....	101 35
South Avenue.....	1,037 66
Randolph Road.....	78 58
Woodland Avenue.....	341 01
West Fourth Street.....	2,051 53
West Fifth Street.....	172 37
West Sixth Street.....	20 60
West Seventh Street.....	736 27
West Ninth Street.....	36 08
Stelle Avenue.....	88 50
Darrow Avenue.....	16 09
West Eighth Street.....	477 51
Union Street.....	54 31
Madison Avenue.....	248 33
Central Avenue.....	241 40
New Street.....	13 43
Division Street.....	62 41
Liberty Street.....	134 30
Plainfield Avenue.....	293 48
Spooner Avenue.....	56 93
Grant Avenue.....	313 16
Lee Place.....	44 78
Irving Place.....	8 12
Rose Street.....	9 56
Hobert Avenue.....	11 00
Monroe Avenue.....	34 35
Clinton Avenue.....	131 76
Willever Street.....	28 96

Arlington Avenue.....	201 11
Grove Street.....	26 08
Washington Avenue.....	30 75
Elmwood Place.....	29 24
Sycamore Avenue.....	39 43
West End Avenue.....	29 15
Compton Avenue.....	23 27
South Second Street.....	210 02
West Third Street.....	148 34
West Second Street.....	298 60
Lyman Place.....	190 01
Myrtle Avenue.....	78 84
Lafayette Place.....	34 95
View Avenue.....	6 69
Osborne Avenue.....	5 98
East Second Street.....	1,693 97
North Avenue.....	91 42
Pine Street.....	8 89
East Front Street.....	707 93
West Front Street.....	2,907 27
General Repairs and Miscellaneous Expenses (21 items)...	82 44
	\$19,418 91
Crosswalks.....	818 70
Culverts.....	965 06
Storm Sewers.....	2,100 47
Street Cleaning and opening gutters.....	7,808 59
Cleaning Brooks and Outlet Ditches.....	347 29
Cleaning Storm Sewers.....	73 38
Cleaning Catch Basins.....	107 41
Cleaning Culverts.....	236 08
Street Sprinkling.....	3,634 06
Removing Snow from streets.....	3,252 67
Removing Trees and Branches.....	7 25
Steam Roller Repairs and Supplies.....	162 78
Office Assistant.....	360 00
Assistants and Inspectors on Street Grades, etc.....	928 39
Blacksmithing.....	92 30
Street Scraper.....	38 75
Telephone.....	27 50
Tools and Supplies, including repairs of surveying instruments	591 34
Twentieth Century Grader.....	96 95
Oil Spreading Attachment.....	162 40
City Yards and Shed.....	574 2
City Dumps.....	17 88
Street Monuments.....	17 99

CITY OF PLAINFIELD

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Automobile, Repairs and Supplies.....	142 29
Street Signs.....	42 25
Work done for Companies and Individuals and Materials Furnished.....	93 00

 \$42,118 61

Amount due on contract for constructing storm sewer in Rich- mond Street [retained for six months].....	60 81
Amount due City from Public Service Railway Company for repair of streets and removal of snow... ..	248 78
Amount held by City Treasurer, account construction of brick pavement.....	1,367 24
Amount certified to assessors for removing snow and ice from sidewalks [to be included in tax bills]	644 30
Amount paid on account of streets macadamized by contract in 1910.....	12,389 34
Amount charged against property owners for constructing and repairing sidewalks.....	254 06

Respectfully submitted,

WILLIAM L. GLOAK,
CHARLES C. RANDOLPH,
HERBERT BUXTON,
F. D. RANDOLPH,
FRANCIS L. MONTGOMERY,

Committee on Streets.

ANDREW J. GAVETT,
City Surveyor and Street Commissioner.

REPORT OF CHIEF OF POLICE

Plainfield, N. J., December 17, 1910.

To the Honorable the Common Council of the City of Plainfield,

GENTLEMEN:—I have the honor to submit herewith the following as my Eleventh Annual Report for the year 1910:

Number of arrests for the year..... 981

Composed of	{	Males.....	908
		Females.....	73
Composed as to color	{	White.....	784
		Negro.....	197

COMPOSED AS TO NATIONALITY

American.....	413
Afro-American.....	197
Irish.....	89
Russian.....	46
Italian.....	89
Polish.....	38
German.....	51
Scotch.....	4
English.....	16
Austrian.....	8
Swedish.....	6
Greeks.....	4
French.....	5
Syrian.....	1
Danish.....	7
Slavish.....	1
Norwegian.....	2
Total.....	981

ARRESTED FOR THE FOLLOWING OFFENSES

Assault.....	I
Drunk and Disorderly.....	131
Criminal Assault.....	7
Drunkenness.....	118
Bastardy.....	4
Disorderly Conduct.....	251
Contempt of Court.....	I
Larceny.....	51
Malicious Mischief.....	7
False Pretenses.....	4
Bicycle Ordinance.....	7
Hack Ordinance.....	3
Murder.....	I
Embezzlement.....	2
Game Laws.....	I
Vagrancy.....	23
Burglary.....	5
Gambling.....	26
Threatening to Kill.....	I
Concealed Weapons.....	7
Perjury.....	I
Atrocious Assault.....	3
Disorderly House.....	I
Peddling Without License.....	27
Indecent Exposure.....	4
Highway Robbery.....	4
Carnal Abuse.....	20
Non-support.....	8
Board of Health Ordinance.....	21
Truancy.....	20
Attempted Rape.....	I
Automobile Law.....	24
Reckless Driving.....	2
Violation Liquor Laws.....	2
Cruelty to Animals.....	11
Cruelty to Children.....	I
Forgery.....	I
Witness in Murder Case.....	3
Dog Ordinance.....	148
Feloniously Killing.....	I
Sodomy.....	I
Cigarette Law.....	I
Fugitive from Justice.....	I
Breaking and Entering.....	3
Jail Breaking.....	I

Shop Lifting.....	3
Violation of Miscellaneous Ord's.....	2
Junk Ordinance.....	2
Adultery.....	2
Bribery.....	4
Demented.....	5
Total.....	981

RESULT OF ARRESTS

Sentence Suspended.....	639
Fined.....	143
Committed to County Jail.....	41
Probated.....	14
Committed to await action of the Grand Jury.....	46
Held in Bond to await action of Grand Jury.....	19
Pending.....	16
Juvenile Court.....	2
Dismissed.....	20
Held in Bond.....	3
Turned Over to Other Departments.....	38
Total.....	981

NUMBER OF ARRESTS MADE BY EACH OFFICER

<i>Officer</i>	<i>Arrests</i>
Kiely, Chief.....	35
Frederickson, Captain.....	9
Flynn, Detective Sergeant.....	210
Overbaugh, Sergeant.....	32
Higgins, Roundsman.....	27
Saunders, Patrolman.....	82
Myers, Patrolman.....	22
Vanderweg, Patrolman.....	21
Saffron, Patrolman.....	35
Flynn, Patrolman.....	12
McGinley, Patrolman.....	18
Messler, Patrolman.....	16
Payne, Patrolman.....	1
Dobson, Patrolman.....	89
MacDonald, Patrolman.....	27
Nolan, Patrolman.....	27
McCarthy, Patrolman.....	22
Sweeney, Patrolman.....	35
Flatley, Patrolman.....	32

CITY OF PLAINFIELD

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Birmingham, Patrolman.....	38
Anderson, Patrolman.....	43
Kelly, Patrolman.....	13
Dunlap, Patrolman.....	35
Baeder, Patrolman.....	9
Wicht, Patrolman.....	8
Regan, Special R. R.....	3
Van Hoesen, Special S. P. C. A.....	2
Dalley, Special.....	2
O'Brien, Special Board of Health.....	12
Doody, Special R. R.....	2
O'Gorman.....	3
McCue.....	1
Hand.....	1
Assisted arrests made by two or more officers.....	15
Total.....	981

NUMBER OF REPORTS AND COMPLAINTS OF CITIZENS INVESTIGATED BY THE DEPARTMENT FROM DEC. 13, 1909 TO DEC. 17, 1910.

December, 1909.....	60
January.....	96
February.....	92
March.....	135
April.....	128
May.....	137
June.....	127
July.....	141
August.....	112
September.....	95
October.....	120
November.....	95
December, 1910.....	51
Total.....	1,383

NUMBER OF VACANT HOUSES REPORTED AND LOOKED AFTER FROM DECEMBER 13, 1909 TO DECEMBER 17, 1910.

January.....	8
February.....	5
March.....	11
April.....	5
May.....	9
June.....	25
July.....	64
August.....	37

September.....	11
October.....	13
November.....	10
December.....	4
Total.....	204

NUMBER OF REPORTS RECORDED BY THE GAMEWELL SYSTEM FROM DECEMBER
13, 1909 TO DECEMBER 17, 1910

Sergeant Overbaugh.....	863
Roundsman Higgins.....	1,561
Patrolman Saunders.....	2,935
" Myers.....	3,025
" Vanderweg.....	3,034
" Saffron.....	2,944
" Flynn.....	3,070
" McGinley.....	3,035
" Messler.....	3,034
" O'Keeffe.....	2,782
" Payne.....	261
" Dobson.....	3,079
" MacDonald.....	3,043
" Nolan.....	3,070
" McCarthy.....	3,016
" Sweeney.....	3,061
" Flatley.....	3,052
" Birmingham.....	3,052
" Anderson.....	1,728
" Kelly.....	2,043
" Dunlap.....	504
" Baeder.....	1,576
" Wicht.....	1,423
Total.....	55,191

Total number of Wagon Calls..... 194

<i>Officer</i>	<i>Vacation</i>	<i>Days Off</i>	<i>Sickness</i>	<i>Total</i>
Kiely, Chief.....	17	5	0	22
Frederickson, Captain.....	14	9	0	23
Flynn, Detective Sergeant.....	13	7	0	20
Overbaugh, Sergeant.....	14	12	0	26
Higgins, Roundsman.....	14	15	6	35
Saunders, Patrolman.....	12	16	14	42
Myers, Patrolman.....	12	21	0	33

<i>Officer</i>	<i>Vacation</i>	<i>Days Off</i>	<i>Sickness</i>	<i>Total</i>
Vanderweg, Patrolman.....	12	16	0	28
Saffron, Patrolman.....	12	20	9	41
Flynn, Patrolman.....	12	19	0	31
McGinley, Patrolman.....	12	19	0	31
Messler, Patrolman.....	12	19	0	31
Kelly, Patrolman.....	12	11	14	37
O'Keefe, Patrolman.....	12	16	32	60
Dobson, Patrolman.....	12	18	0	30
MacDonald, Patrolman.....	12	15	3	30
Nolan, Patrolman.....	12	16	0	28
McCarthy, Patrolman.....	12	17	4	33
Sweeney, Patrolman.....	12	18	3	33
Flatley, Patrolman.....	12	15	1	28
Birmingham, Patrolman.....	12	16	2	30
Wicht, Patrolman.....	6	3	0	9
Baeder, Patrolman.....	6	2	0	8
O'Gorman, Patrolman.....	12	3	0	15

NUMBER OF STREET LIGHTS REPORTED AS BEING OUT FROM DECEMBER 13,
1909 TO DECEMBER 17, 1910

December, 1909.....	132
January, 1910.....	84
February.....	32
March.....	16
April.....	87
May.....	33
June.....	249
July.....	72
August.....	131
September.....	115
October.....	57
November.....	73
December.....	28
Total.....	1,109

THE SALARIES ARE AS FOLLOWS:

Patrick S. Kiely, Chief.....	\$1,600 00
Christian Frederickson, Captain.....	1,200 00
H. L. Overbaugh, Sergeant.....	1,140 00
J. J. Flynn, Detective Sergeant.....	1,140 00
Maurice Higgins, Roundsman.....	1,080 00
Andrew Saffron, Patrolman.....	1,000 00
Arthur McGinley, ".....	1,000 00
Martin Vanderweg, ".....	1,000 00
J. A. Saunders, ".....	1,000 00
William Messler, ".....	1,000 00

C. A. Flynn,	Patrolman	1,000 00
Dennis O'Keeffe,	"	1,000 00
John Kelly,	"	731 02
D. I. MacDonald,	"	960 00
John Payne,	"	41 67
G. K. Dobson,	"	960 00
Nicholas Myers,	"	1,000 00
Cornelius McCarthy,	"	954 00
Thomas Flatley,	"	937 10
T. W. Nolan,	"	954 00
Frank Sweeney,	"	954 00
Charles Anderson,	"	396 00
Richard Birmingham,	"	924 00
Joseph Dunlap,	"	154 00
Thomas McCue,	"	646 68
Thomas O'Gorman	"	792 00
Ferdinand Baeder,	"	352 00
Charles B. Wicht,	"	318 25
Total		\$24,408 52

The Expenditures of the Department during the year have been as follows:

Regular Police	\$24,408 52
Department Expenses	349 14
Telephone	39 25
Department Supplies	127 88
Plainfield Water Company	54 70
Fuel	108 00
Keep and Maintenance of Horse	288 26
Carriage and Automobile Hire	74 55
Maintenance of Prisoners	59 50
Special Police	99 20
Police Surgeon, Dr. Lufburrow	200 00
Care of Gamewell System	317 64
Bicycles	141 75
Stationery and Supplies	101 14
Laundry	75 94
Cleaning Headquarters	44 00
Painting and Repairing Patrol Wagon	76 25
Removing Ashes	14 50
Furniture for Headquarters	100 00
Street Signs	52 76
Repairs to Headquarters	48 72
Miscellaneous	54 00
Total	\$26,835 72

In conclusion it gives me much pleasure to state that peace and good order prevails throughout the city. I wish to thank your Honorable Body, also the Honorable Mayor and Police Board for the very courteous and kind treatment accorded to me during the past year. I also wish to express my thanks to the officers and members of the Police Department for their good and faithful work, and all citizens who have in any way contributed to the success of this Department.

Respectfully submitted,

PATRICK S. KIELY,
Chief of Police.

REPORT OF CHIEF OF FIRE DEPARTMENT

Plainfield, N. J., December 31, 1910.

To the Honorable the Common Council of the City of Plainfield,

GENTLEMEN:—According to the requirements of the City Ordinance, I herewith tender this my twenty-third annual report of the condition and operation of the Fire Department under your control. This report covers the number of fires attended by the department, the amount of service rendered and the amount of losses and insurance, as nearly as could be ascertained.

MANUAL FORCE

The manual force is divided into two classes, permanent and call men. The permanent force consists of one Chief Engineer, one Assistant Engineer; four captains of companies; one Chief's driver; one tillerman; seven drivers of apparatus; four hose men. The call force comprises one captain; one engineer of steamer; one veterinary surgeon; twenty-eight hose and ladder men.

HOUSES

The City owns four Engine houses, namely; the Headquarters building, Nos. 145 to 149 East Second Street, is occupied by the Chief's office; No. 2 Hose Wagon; No. 1. Chemical; No. 1 Hook and Ladder; Supply Wagon and the Chief's Automobile.

No. 1 Engine House, Nos. 206-208 West Second Street, is occupied by No. 1 Hose Wagon and No. 1 Steamer.

No. 3 Engine House Nos. 730-732 West Fourth Street, is occupied by No. 3 Combination Wagon and Supply Wagon.

No. 4 Engine House, Nos. 1015-1017 South Avenue, is occupied by No. 4 Combination Wagon.

APPARATUS

The Department has in service one third-size Double Pump Amoskeag Steamer, 600-gallon rated capacity. One Hays Turntable Aerial Hook and Ladder Truck, 65-foot Aerial Extension Ladder. One 40-foot Ground Extension Ladder; 175 feet of side and Extension ladders. One Double Tank 60-gallon Chemical Wagon; two Double Tank 35-gallon Combination Wagons; two straight Hose Wagons; two Supply Wagons; one Chief's Auto.

HOSE

There are 8,000 feet of good hose in use. The city should purchase a thousand feet of new hose.

HORSES

There are fifteen horses in the Department. Three have been condemned. The others are in good condition.

FIRE ALARM

Our system now consists of 49 Fire Alarm Boxes, about 28 miles of overhead wire [No. 10 hard drawn Copper insulated]; one 12-inch Steam Gong located at the Spicer Manufacturing Company's works; five 15-inch House gongs [one located at the Pumping Station]; eighteen 6-inch Tappers located in the houses of Officers and members of the Department. One 6 Circuit Automatic Combination Storage-battery and repeater Switchboard, having mounted on it instruments and switches and testing and charging, one 7 Circuit repeater [2 house circuits, 5 alarm circuits].

Power for the system is generated at Headquarters Building by a motor-generator set which delivers direct current at 180 volts pressure to 110 cells of storage battery arranged in two large groups of 55 cells each and known as battery "A" and battery "B". These groups are again sub-divided into smaller groups and connected in each fire alarm circuit in duplicate sets, so that when the repeater is in service if one circuit should be broken all of the others would be operative.

While Battery A is working on the line, battery B is being charged, and this order is changed every morning.

The storage cell used is the "BT" couple type of chloride accumulator, made by the Electric Storage Battery Company, and supplied to this Department by the Gamewell Fire Alarm Telegraph Company.

This branch of the service is in charge of The Allen B. Laing Company, under the direct management of Mr. A. V. Searing, Jr. We have had good service during the year.

There have been 173 alarms during the year:

Phone alarms.....	90
Box alarms.....	69
Verbal.....	12
Special.....	1
General.....	1

Total.....	173
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INSURANCE AND LOSSES

Loss on Buildings.....	\$33,901 50
Insurance on Buildings.....	397,220 00
Loss on Contents.....	27,289 99

Insurance on Contents.....	276,900 00
Total Amount of Insurance.....	674,120 00
Total Amount Insurance Collected.....	60,449 49
Total Loss Insured and Uninsured.....	61,119 49

Value of Property Involved:

Buildings.....	564,118 00
Personal.....	457,135 00

\$1,021,253 00

CAUSES OF FIRE

Chimney and Defective Flues.....	35
Woods and Grass.....	22
Debris.....	22
Unknown.....	16
Locomotive Sparks.....	8
Gasoline.....	8
Spontaneous Combustion.....	7
Lamps.....	6
Matches.....	5
Matches and Children.....	4
Cigars and Cigarettes.....	4
Stoves.....	4
Smoke.....	3
Automobiles.....	3
Heater.....	3
Oil Stoves.....	2
Fire Works.....	2
Thawing Pipes.....	2
Painter.....	2
Ashes.....	2
Mice and Matches.....	1
Bed.....	1
Decorations.....	1
Gas.....	1
Boiler.....	1
Lantern.....	1
Rags.....	1
Out City.....	1
Tramps.....	1
Electric Spark.....	1
Charcoal.....	1
Water Running.....	1
Burning Bricks.....	1

Total..... 173

WATER SUPPLY

There are 346 hydrants placed throughout the city; 26 more have been ordered by your Honorable Body. These are not yet placed.

The water pressure west of Richmond Street is about 75 pounds. In the Netherwood Heights section about 30 pounds; east of Richmond Street and south of North Avenue about 60 pounds.

IN CONCLUSION

For the past several years I have called the attention of your Honorable Body to the fact that we must have more hydrant pressure throughout the city, or purchase at least one more Steam or Motor Fire Engine. Motor Fire Engines are now considered a success. They are being used all over the country. One of these engines would take the place of a Steamer and Hose Wagon, doing away with four horses. From reports of Chief Engineers of different cities throughout the United States the cost of maintenance is less than half of a steamer, and the service a great deal quicker and better.

We have had sixty more alarms of fire this year than we had in 1909 being 43 more than we ever had in one year in the history of the city, and it was only by the quick and efficient work of the officers and men of the Department that our losses compare very favorably with the amount of insurance involved.

I can but repeat one portion of my last year's report wherein I said: "Now the cost of living having advanced from twenty to forty per cent., I think it but right to ask that the pay of the members of the Department be increased. At present the men are not receiving a living wage. The schedule of pay is now less than in any other city the size of Plainfield. It should be at least one thousand dollars a year after five years' service with an increase of fifty dollars a year thereafter until the salary reaches twelve hundred dollars per year. This would make the pay of a man who had served ten years twelve hundred dollars, thus giving a man something to look forward to."

We have nearly thirty miles of overhead wire throughout the city. In the centre of the city the only poles standing are for fire alarm; some of these need to be replaced by new ones. Our wires run through trees all over the city, and our line men are busy the year round trimming trees to clear our lines, as the chafing of the limbs wears off the covering, causing grounds on the system, often breaking the wires and throwing one or more circuits out of service. I earnestly recommend that at least one section of our wires be placed underground during the coming year.

I thank his Honor the Mayor and the members of your Honorable Body for the interest you have taken in the Department during the year.

To Chief of Police P. S. Kiely and the officers and men of his department I tender my sincere thanks for assistance rendered during fires.

It affords me great pleasure to again say that all of the success of the past year is due to the satisfactory and efficient manner in which both officers and men have performed their several and always dangerous duties.

Respectfully submitted,

T. O. DOANE,

Chief Engineer, Plainfield Fire Department.

REPORT OF BOARD OF HEALTH, CITY OF PLAIN- FIELD, N. J., 1910.

MEMBERS OF THE BOARD OF HEALTH, PLAIN- FIELD, N. J., 1910

B. VAN D. HEDGES, M.D., President.....	518 Watchung Avenue
T. S. DAVIS, M.D., Secretary.....	603 Park Avenue
FRED W. DUNN, Treasurer.....	37 Sandford Avenue
CHARLES H. DUNHAM.....	314 Central Avenue
WILLIAM C. KINNEY.....	828 Arlington Avenue

L. R. THURLOW, Health Officer.....	Truell Hall
JOHN O'BRIEN, JR., Assistant Health Officer.....	230 East Fifth Street
WILLIAM ADDIS, SR., Inspector.....	310 Orange Place
C. A. LAMONT, Inspector.....	514 Madison Avenue
MISS H. O. MATTISON, Stenographer and Registrar of Vital Statistics.....	627 East Seventh Street

Plainfield, N. J., December 31, 1910.

To the Honorable Mayor and Common Council of the City of Plainfield, N. J.

GENTLEMEN:—We hereby submit the twenty-second Annual Report of the Board of Health of the City of Plainfield.

The most important work done by the Board during the past year has been in connection with the inspection of milk. During the month of November, all the samples of milk obtained from the twenty-nine distributors had a bacterial count under 50,000 per cubic centimeter. There were nineteen with less than 30,000, six with less than 10,000 and one with only 3 850. This is a most remarkable showing and more than justifies the time and energy expended by the Board in this direction.

During the Spring and early Summer a vigorous and extensive house-to-house inspection was made in the most congested portions of the city. This work will be extended so as to cover the entire city during the coming year.

A new apparatus has just been installed for analyzing air and during the winter we propose to test the ventilation and atmospheric conditions present in our schools, theatres, shops, and public meeting places generally.

Progress is being made in the preparation of our new Code. The old one dates back to 1902. Since then, so many changes have been made both in the State laws and City ordinances, that a new Sanitary Code is imperative. We hope to have this in the hands of the printer, soon.

In order to save life and prevent, as far as possible, the further spread of diphtheria, the Board has decided to furnish, free of charge, to the indigent poor of Plainfield, curative and immunizing doses of antitoxin. We feel that in so doing we are protecting and conserving the best interests of the community.

The question of the collection and disposal of the garbage in an efficient and sanitary manner is still unsolved. We sincerely trust that you will give this matter your earnest and careful consideration this coming year.

The Board feels deeply the loss it has sustained in the resignation as Health Officer, of Mr. L. R. Thurlow, who has done such efficient work during the last nine years, and who has now left us for a larger field of usefulness in New York. Mr. John O'Brien, Jr., who has been Assistant Health Officer for the past two years has been appointed in his place. We have every reason to believe that he will render to the Board and the City the same conscientious and thorough service.

The detailed workings of the Board in all its various Departments are fully set forth in the accompanying report of the Health Officers, to which your attention is respectfully called.

Respectfully submitted,

B. VAN D. HEDGES, President

T. S. DAVIS, Secretary.

ANNUAL REPORT OF THE TREASURER

Plainfield, N. J., December 31, 1910.

To the Board of Health, City of Plainfield, N. J.

GENTLEMEN:—The following is a statement of the Board's finances for the year ending December 31, 1910:

FEES

RECEIPTS

Plumbing Permit Fees.....	\$564 00
Milk Permit Fees.....	124 00
Garbage and Offal Permit Fees.....	81 00
Scavenger Permit Fees.....	10 00
Barber Shop Permit Fees.....	64 00
Ice Permit Fees.....	14 00

 \$857 00

DISBURSEMENTS

Paid to City Treasurer.....	\$857 00
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BOARD OF HEALTH ACCOUNT

RECEIPTS

Balance, December 31, 1909.....	\$ 443 43
Appropriation from Common Council.....	7,500 00
Credits on and Sale of Disinfecting Material..	13 40

 \$7,956 83

DISBURSEMENTS

Salaries.....	\$5,178 34
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General Expenses:

Cleaning Offices.....	\$99 00
Laundrying Towels.....	8 67
Railroad and Carfares.....	90 45
Carriage Hire.....	6 75
Expressage.....	37 99
Telephone.....	70 50
Removing Dead Animals.....	35 00
Representative to N. J. Sanitary Association	
1909 and 1910.....	13 90
Bicycle Repairs, Etc.....	21 95
Furniture.....	108 00
Filing Cabinets and Bookcases.....	71 95
Inspector's Uniform.....	25 00
Permit Signs.....	29 40
Directory.....	3 00
Sundry Expenditures.....	27 14

 \$648 70

Quarantine Expenses:

Carriage Hire and Removal of Patients....	\$ 42 00
Material and Supplies.....	128 31
Interpreter and Special Officer.....	4 75
Charts.....	1 00
Antitoxin.....	55 83
Physician's Services.....	9 00
Provisions for Quarantined Families.....	30 45

\$271 34
270 00

Rent of Office.....

Laboratory Expenses:

Milk, Cream and Ice Cream Samples.....	\$41 98
Ice.....	8 57
Gas.....	9 26
Equipment and Supplies.....	152 02

\$211 83
398 27

Printing, Stationery and Office Supplies.....

Dairy Inspection:

Motor Cycle Supplies and Repairs.....	\$63 00
Carfares and Railroad.....	29 65
Carriage Hire.....	74 00
Board and Lunches.....	18 10

184 75

\$7,163 23

Balance, December 31, 1910.....

793 60

\$7,956 83

SUMMARY

RECEIPTS

Balance, December 31, 1909.....	\$ 443 43
Appropriation from Common Council.....	7,500 00
Credits on Disinfecting Material.....	13 40
Fees.....	857 00

\$8,813 83

DISBURSEMENTS

General Expenses.....	\$7,163 23
Paid to City Treasurer for Fees.....	857 00
	\$8,020 23
Balance, December 31, 1910..	793 60

\$8,813 83

Respectfully submitted,

FRED W. DUNN,

Treasurer.

ANNUAL REPORT OF THE HEALTH OFFICERS 1910.

December 31, 1910.

To the Board of Health, City of Plainfield, N. J.,

GENTLEMEN:—The following is submitted as a report of the detailed workings of the Health Department for the past year.

The routine work has been carried on as usual and in addition, some new and important lines have been taken up—particularly the enforcement of Pure Food Law. This cost considerable time and effort, but the matter was carried through without friction and the provisions of the law are being complied with.

The principal recommendation we have to make is that the Common Council be requested to appoint a committee to act in conjunction with a similar one from this Department, to consider and adopt some proper method of municipal garbage collection and disposal. The present situation as regards this matter will be more fully discussed in the subsequent pages of this report.

VITAL STATISTICS

During the year 1910, the following returns were made to this office:

Marriages.....	190
Births.....	497
Still-Births.....	19
Deaths.....	318

Total.....	1024
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In a table which appears on another page, the marriage, birth and death rate per thousand population is shown, compared with the rate for the thirteen previous years.

The result of the census made by the Government this past year, showed Plainfield's population to be only 20,550. The estimated population for the past four years is, therefore, placed too high; and in changing the figures to correspond with those of 1910 census report, the different rates are necessarily higher. This fact will explain the discrepancy between the reports of this Department for 1910 and the previous years.

DEATHS

As the total number of deaths was 318, the rate per thousand population is 15.47. This is a little higher than for the previous year, but is about the average rate. Over 52 per cent. of the deaths were persons over forty years of age.

DEATHS BY SEXES

Male.....	159
Female.....	159
Total.....	318

DEATHS BY COLOR

White.....	276
Colored.....	42
Total.....	318

The following table shows the deaths at all ages:

Under one month.....	26
One month to one year.....	26
One year to five years.....	23
Five years to twenty years.....	24
Twenty years to forty years.....	51
Forty years to sixty years.....	56
Over sixty years.....	112
Total.....	318

BIRTHS

Four hundred and ninety-seven births were reported during 1910, giving a rate of 24.13 per thousand population. The following table shows the number of male and female; and white and colored:

BIRTHS BY SEXES

Male.....	251
Female.....	246
Total.....	497

BIRTHS BY COLOR

White.....	449
Colored.....	48
Total.....	497

STILL-BIRTHS

Of the nineteen still-births reported, 8 were male, and 11 female; 10 were white and 9 were colored. The rate is 0.92 per thousand population.

MARRIAGES

The number of marriages reported during the year was 190—a rate per thousand population of 9.24. 161 of the contracting parties were white and the remaining 29 were colored.

NATIONALITY TABLE
MARRIAGES, BIRTHS AND DEATHS

Country	Marriages		Births		Deaths
	Grooms	Brides	Fathers	Mothers	
United States.....	139	140	304	309	254
Ireland.....	8	10	26	37	22
Italy.....	11	10	51	48	9
England.....	4	2	10	7	12

Country	Marriages		Births		Deaths
	Grooms	Brides	Fathers	Mothers	
Germany.....	3	1	12	12	7
Russia.....	2	2	33	32	0
Scotland.....	3	6	5	2	3
Sweden.....	1	3	7	8	4
Denmark.....	2	2	4	3	0
Canada.....	2	0	4	3	1
France.....	0	0	2	1	0
Austria.....	3	3	16	13	0
Hungary.....	0	3	1	1	0
Norway.....	2	0	3	3	0
Poland.....	4	4	8	8	0
Bermuda.....	1	1	1	1	0
Switzerland.....	1	1	0	0	0
Syria.....	1	0	1	1	1
Finland.....	0	1	1	1	0
India.....	1	0	0	1	0
Greece.....	1	0	1	1	0
Bohemia.....	0	1	0	0	0
Roumania.....	0	0	2	3	0
Africa.....	0	0	1	0	0
West Indies.....	0	0	0	0	1
Wales.....	0	0	0	0	1
Unknown.....	1	0	4	2	3
Totals.....	190		497		318

STATEMENT OF MARRIAGES, BIRTHS AND DEATHS FOR PAST FOURTEEN YEARS

Year	Popula- tion	Marriages		Births		Deaths	
		No.	Rate	No.	Rate	No.	Rate
1897	14,330	111	7.75	351	24.49	227	15.84
1898	14,670	95	6.48	277	18.48	218	14.85
1899	15,020	123	8.19	269	17.90	229	15.25
1900	15,369	110	7.16	330	21.47	284	18.48
1901	15,990	128	8.00	316	19.76	255	15.94
1902	16,600	134	8.07	311	18.74	257	15.48
1903	17,230	131	7.60	378	21.94	261	15.15
1904	17,850	125	7.00	338	18.94	286	16.02
1905	18,478	144	7.79	357	19.32	286	15.48
1906	18,892	155	8.20	404	21.38	298	15.77
1907	19,308	183	9.48	415	21.49	344	17.82
1908	19,722	131	6.64	429	21.75	330	16.73
1909	20,138	204	10.13	428	21.25	289	14.35
1910	20,550	190	9.24	497	24.13	318	15.47

COMMUNICABLE DISEASES

The number of communicable diseases during 1910, as shown by the following table, is not abnormal in any way:

<i>Disease</i>	<i>Cases</i>	<i>Deaths</i>
Scarlet Fever.....	72	2
Diphtheria.....	48	2
Typhoid Fever.....	25	3
Tuberculosis.....	62	37
Measles.....	80	0
Chicken Pox.....	32	0
Anterio Poliomyelitis.....	2	0
Smallpox.....	0	0
Totals.....	321	44

In addition to the above, three cases of scarlet fever and seven cases of typhoid fever were brought to the Muhlenberg Hospital from out of town, for treatment.

SCARLET FEVER was prevalent throughout the State, during the past year, and in some places epidemic, so that Plainfield was fortunate in having no more than 72 cases. In most cases, the disease was in a mild form, though two of them resulted in death.

DIPHTHERIA: The 48 cases reported was an increase over the number for the preceding year, but as in the case of scarlet fever, compared very favorably with the number reported in other cities. The majority of the cases developed after the opening of the public schools in the fall. This is undoubtedly due to the fact that a number of children probably had the disease in so mild a form that it was unrecognized, and being allowed to attend school and mingle with other children, thus spread the contagion. Since the advent of antitoxin and its widespread use in the treatment of the disease, the malignancy of diphtheria has been greatly minimized, and when it appears, it is usually in a mild form. In two cases, death resulted, but in one instance, the disease was complicated by scarlet fever, and in the other, by diphtheric croup.

During the latter part of the year, the Board obtained a supply of diphtheria antitoxin for use among the indigent, and it is hoped in this way, to save life and check the spread of this disease.

TYPHOID FEVER: After the return of people from their summer vacations, cases of typhoid fever began to develop in Plainfield, and fifteen of the twenty-five reported during the year, were reported after the 11th of September. All cases were carefully investigated with a view to ascertaining the source of infection and to see that proper precautions against the spread of the disease were being carried out. A number of the cases were treated in the Muhlenberg Hospital. In no instance was it definitely found that any of the cases were of local source, except where there was more than one case in a family. There were three deaths from this disease.

TUBERCULOSIS: More cases of this disease were reported during 1910

than ever before. Whether there is a real increase, or whether cases are being more faithfully reported, we are not prepared to say, but it is probable that the latter is the case. There is, of course, no exact relation between the 62 cases and the 37 deaths reported, as many of the deaths resulted from long-standing cases. Investigation is made of special cases by this Department, and a great deal of disinfection after deaths or removals, has been done. The Anti-Tuberculosis League of Plainfield and North Plainfield is doing excellent work in the relief and control of this disease, by means of its visiting nurse, its pavilion for the treatment of incipient cases, and its educational campaign.

MEASLES: The 80 cases reported was less than the number for the preceding year. No quarantine is established by this Department, but parents and guardians are advised to keep the patients isolated from the remainder of the family.

CHICKENPOX: Only 32 cases and no deaths were reported during the year.

SMALLPOX: Plainfield was fortunate in having no smallpox during 1910. There are cases in other cities and towns in the state, however, and we are ready to handle any that may occur here.

ANTERIOR POLIOMYELITIS, otherwise known as Infantile Paralysis, was added to our list of reportable diseases, this past year, and two cases were reported. One case developed in a child who was visiting in Plainfield. The other is now improving.

All cases of the different diseases reported were promptly investigated and quarantines established for scarlet fever and diphtheria. In several instances where the quarantine was broken, the offenders were arrested.

TABLE SHOWING COMPARISON OF DEATHS FROM TUBERCULOSIS AND PNEUMONIA FOR THE PAST FOURTEEN YEARS

Year	Popu- lation	Number Deaths from all Causes	TUBERCULOSIS			PNEUMONIA		
			Deaths	Percentage of Total Deaths	Deaths per 1,000 Pop.	Deaths	Percentage of Total Deaths	Deaths per 1,000 Pop.
1897	14,330	227	26	11.41	1.11	15	6.61	1.04
1898	14,670	218	17	7.80	1.16	13	5.96	0.89
1899	15,020	229	24	10.52	1.59	17	7.42	1.13
1900	15,369	284	26	9.15	1.69	44	15.49	2.86
1901	15,990	255	23	9.02	1.44	24	9.41	1.50
1902	16,600	257	38	14.79	2.29	25	9.73	1.51
1903	17,230	261	27	10.34	1.57	13	4.98	0.75
1904	17,850	286	44	15.38	2.46	30	10.49	1.68
1905	18,478	286	35	12.24	1.89	24	8.39	1.30
1906	18,892	298	26	8.72	1.38	31	14.40	1.64
1907	19,308	344	30	8.72	1.55	29	8.43	1.50
1908	19,722	330	42	12.72	2.13	28	8.50	1.42
1909	20,138	289	29	10.04	1.44	29	10.04	1.44
1910	20,550	318	37	11.63	1.80	35	11.01	1.70

TABLE SHOWING COMMUNICABLE DISEASE FOR THE PAST FOURTEEN YEARS

Year	Scarlet Fever		Diphtheria		Typhoid Fever		Small pox		Chick-en pox		Tuberculosis		Measles	
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
1897	101	1	18	1	16	0	0	0	0	0	0	0	9	1
1898	23	0	40	4	14	1	0	0	0	0	0	0	11	0
1899	19	2	28	2	20	1	0	0	0	0	0	0	10	0
1900	104	1	19	0	19	3	0	0	0	0	0	0	74	1
1901	23	0	29	4	29	4	0	0	0	0	0	0	0	0
1902	55	6	55	6	35	3	14	4	3	0	0	0	30	0
1903	35	2	123	4	29	7	3	0	60	0	48	27	9	0
1904	37	1	53	4	38	9	1	0	26	0	59	44	171	0
1905	47	0	23	1	22	2	0	0	15	0	23	35	215	0
1906	27	1	23	2	19	2	0	0	16	0	42	26	20	0
1907	51	1	36	1	13	0	0	0	34	0	41	30	10	0
1908	30	0	20	4	52	9	0	0	18	0	47	42	222	0
1909	102	1	27	2	14	2	6	0	44	0	57	29	102	0
1910	72	2	48	2	25	3	0	0	32	0	62	37	80	0

DISINFECTION

According to our usual custom, formaldehyde gas was used for disinfecting. The following table shows the number of disinfections for the year:

Disease	Rooms	Houses	Carriages	Hospital	Totals
Scarlet Fever	300	71	14	3	92
Diphtheria	188	57	0	0	58
Tuberculosis	129	44	0	0	44
Anterior-Poliomyelitis	3	2	0	0	2
Request	62	17	0	0	17
	682	191	14	3	213

GARBAGE AND REFUSE

As usual, the complaints of nuisances caused by the accumulations of garbage and refuse matter, head the list, and what has been said in previous reports in regard to this subject, can only be emphasized: i.e. that the Board urge the Common Council to take the necessary steps to establish a system of collection and disposal of the city's waste, under municipal control.

The situation is much the same as it has been for years, except that some improvement in the method of collection was brought about by the adoption,

two or three years ago, of a somewhat more stringent garbage ordinance. During the year, several arrests were made for violations of this ordinance, and the offenders either fined or reprimanded. The fact remains, however, that the people of Plainfield are having very poor and very expensive service, and that those who, perhaps, need it most, are not having any service. Those who live in the poorer sections of the city, where the houses are closer together and a number of families live in one house, are the ones who cannot afford to pay for having the refuse removed and they must dispose of it as best they can. It is in such places that flies hold carnival, and they are thus strongholds for the pests that disseminate filth and disease.

Twenty-one men, licensed by this Department, collect the garbage from a possible two-thirds of the houses in Plainfield. They have no particular territory, and the majority of the wagons traverse nearly the entire city.

After it is collected, the garbage is taken out of the city and fed to hogs; it may be suggested at this point, that it returns to Plainfield in the form of pork.

It is devoutly to be hoped that some definite action will be taken by the City Authorities to remedy the disgraceful condition of affairs.

GENERAL INSPECTIONS

During the past year, the following general inspections were made:

Inspections of rear yards.....	5,904
“ “ nuisances.....	917
“ “ bakeries.....	137
“ “ dumps.....	98
“ “ public toilets.....	133
“ “ restaurants.....	55
“ “ ice cream places.....	193
“ “ trolley cars.....	24
“ “ vaults and cesspools.....	228
“ “ barber shops.....	157
“ “ school buildings.....	12
“ “ slaughter houses and meat markets.....	19
“ “ soda manufacturers.....	1
“ “ public bath.....	1
“ “ stables.....	408
“ “ brooks.....	2
House-to-house inspections.....	879
Visits to houses with communicable disease.....	336
Total.....	9,254

HOUSE-TO-HOUSE INSPECTION

One of the most important matters for a Board of Health to know in connection with its work of sanitation and prevention of disease, is the housing

conditions of the locality, in order that it may know the exact situation with which it has to deal. The fact that Plainfield covers a large area makes for better sanitary conditions; there are really no congested districts and very few tenement houses.

From time to time, the work of a sanitary survey of the entire city has been attempted, but for various reasons, principally from lack of funds, it has never been completed. During the latter part of 1909 an inspector was employed for this purpose, and the work was continued until about the middle of 1910. In that time, nearly the whole section of the city east of Park Avenue was covered, and a record made of the conditions found in each house. The house is inspected from cellar to attic, the number of rooms noted, the lighting and heating, the general sanitary conditions, the plumbing, the number of occupants, e.c. During this past year 856 houses were thus inspected and 640 of these properties were found to be in good shape. On 215 of them, however, nuisances or violations of our sanitary code, were found, as follows:

35	water closets in unsanitary condition
3	chicken yards in unsanitary condition
74	privy vaults in unsanitary condition
10	collections of garbage and refuse
13	offensive manure piles
49	cesspools still in use
23	unsanitary cellars
8	unsanitary plumbing systems
19	plumbing fixtures unvented
9	waste water being thrown on ground
2	bedrooms unclean and without light
5	houses without water and plumbing fixtures

NUISANCES

Two hundred and thirty-six complaints of nuisances were received during the year. They are tabulated as follows:

Garbage and refuse.....	36
Unsanitary water closets.....	22
Unsanitary houses, cellars and yards.....	25
Full and overflowing privy vaults.....	14
Chicken yards in unsanitary condition.....	23
Accumulation of manure.....	17
Dumping grounds.....	7
Sewer and cesspool notices.....	25
Burning of papers and rubbish.....	4
Defective plumbing.....	13
Full and overflowing cesspools.....	8

Dead animals.....	6
Miscellaneous.....	36
Total.....	236

In connection with the above, a careful investigation, and in some cases, repeated inspections were made, and the following action taken:

122 verbal notices
88 letters written
41 notices served

251 Total notices

Twenty-eight of the complaints received were groundless, or cases in which no action could be taken by the Board.

Number complaints received during 1910.....	236
Number complaints remaining from previous years.....	61
	297
Number nuisances abated, 1910.....	227
Number nuisances unabated, but underway.....	70

Several prosecutions were made during the year, for violations of our ordinances.

PLUMBING

During the year 398 plumbing permits were issued, and the following inspections made:

Water tests.....	244
Smoke tests.....	17
Sewer connections.....	265
Cesspool connections.....	65
Completed plumbing systems.....	91
Additional plumbing systems.....	166
Defective plumbing systems.....	42
Alterations to plumbing systems.....	71
Cellar water closets.....	126
Hopper closets in yards.....	16

Total..... 1,103

ICE CREAM

Nearly all the ice cream sold in Plainfield is of local manufacture. Only two dealers purchase their supply from out of town. During the past year ice cream was sold from 48 different places in the city, as follows:

- 8 drug stores
- 12 large manufacturers
- 4 small manufacturers
- 24 stores, restaurants, etc.

All of these places were thoroughly inspected for general conditions affecting the ice cream, and it was gratifying to note a marked improvement since the first inspections made in 1908. During the summer months, these inspections were made every week, and later in the season every two weeks. The abstract of Chapter 231, Laws of 1909 [relating to the Pure Food Act], was posted in all the places, and the attention of the manufacturers and dealers called to the requirements thereof.

The work of analysis, this past year, was confined almost entirely to samples obtained directly from the manufacturers, as the small dealers buy from them. Seventy-four samples were analyzed and the results compared very favorably with last year. Fifteen samples of cream used in the manufacture of the ice cream were also analyzed. The latter came from approved sources, was of fair quality and in no case was a preservative or thickener found. The practice of using condensed or evaporated cream for making ice cream has been discontinued.

The samples were obtained in the open market in the same manner as a regular customer would buy the ice cream. Brought to the laboratory in the pasteboard box furnished by the dealer, a small quantity was removed with a sterile spoon to a sterile dish and allowed to melt sufficiently to draw through a pipette, when it was planted in culture media and the bacteria grown and counted in the usual way. The remainder of the analysis—the percentage of butter fat, the presence of coloring matter and a thickener—was then done. The cream was obtained from the manufacturer in a sterile container, just before it was to be mixed with the other ingredients for making the ice cream.

The following tables will show the result of these analyses:

ICE CREAM DEALERS
DRUG STORES

The following sell ice cream from soda fountain only. All manufacture their own with the exception of T. S. Armstrong, who buys from a Philadelphia firm:

<i>Name</i>	<i>Place of Business</i>
Armstrong, T. S.	Cor. Park and North Aves.
Cadmus Bros.	Cor. Watchung and North Aves.
Hodge, P. B.	Cor. Watchung Ave. and East Front St.
Miller, D. S.	Cor. Park Ave. and East Fourth St.
Nagle, Clayton S.	332 West Front St.
Randolph, L. W.	143 West Front St.
Rowley, Frank	218 West Front St.
Schreiner, B. J.	Cor. Park Ave. and West Second St.

MANUFACTURERS

Large Dealers

*Debele & Stahl
 DeMolli & Company
 Hall, Chas. H.
 *Kolb Candy Company
 Lohrman, A. C.
 Lopresti, John
 Mills, E. R.
 Riseto, Peter
 Ritz Company
 St. Stephens
 *Tier, Mrs. Gertrude
 Warnock, W. W.

111 Somerset St.
 331 West Front St.
 508 Watchung Ave.
 112 West Front St.
 133 East Front St.
 405 Watchung Ave.
 1217 West Front St.
 162 East Front St.
 Babcock Building
 241 West Front St.
 32 Bank Place
 144 West Front St.

Small Dealers

Gilbert, Richard
 Leonti, N. & Company
 Manning, Mrs. K.
 Zeckendorf, Emil
 *Wholesale and Retail

951 South Second St.
 314 Watchung Ave.
 513 West Fourth St.
 208 West Fourth St.

The following small dealers are supplied by local manufacturers with the exception of three marked *.

*Name**Place of Business*

Basini, John
 Brancati, Amerigo
 Boston Candy Kitchen
 Cannon, Percy
 *Clevely, E. H.
 Dajohn, Louis
 Handelman, J.
 Fay, Louis
 Garthwait, T. A.
 Jensen, Mrs. M.
 Johnson
 Matarozzo, Joe
 Mottley, John B.
 Mutnick, Joseph
 Pasto, Mary
 Pugh, H. P.
 Rigante, Julino
 *Royster, T. H.
 *Semer, Herman
 Steinberg, Joe
 Timbo, Tho.
 Trupin, Mrs.
 Woolworth Co.
 Zeckendorf

963 West Fourth Street
 201 Grant Avenue
 136 Park Avenue
 837 East Second Street
 155 North Avenue
 214 Richmond Street
 701 West Third Street
 423 West Second Street
 316 Watchung Avenue
 659 West Fourth Street
 179 North Avenue
 404 Liberty Street
 225 Richmond Street
 552 West Fourth Street
 321 Richmond Street
 954 West Fourth Street
 310 Liberty Street
 232 West Second Street
 902 West Third Street
 401 Plainfield Avenue
 216 Watchung Avenue
 541 West Third Street
 232 West Front Street
 City Market

ANALYSES

CREAM USED IN THE MANUFACTURE OF ICE CREAM

<i>Name</i>	<i>Date</i>	<i>From whom Purchased</i>	<i>% Fats</i>	<i>Gela- tine</i>	<i>Bacteria Per C. C.</i>
Baker, L. L.	July 28	J. I. Brokaw	11.0	No	5,400,000
Debele & Stahl	July 29	Durling & Company	11.0	No	3,260,000
	Sept. 21	Durling & Company	15.0	No	2,400,000
	Dec. 19	Durling & Company	12.0	No	986,000
DeMolli & Co.	July 29	J. I. Brokaw	12.5	No	2,200,000
Lohrman, A. C.	July 28	Durling & Company	16.0	No	4,000,000
Mills, E. R.	July 29	Raritan Creamery	16.0	No	4,005,000
Ritz Company	July 28	J. I. Brokaw	14.0	No	3,645,000
	July 28	J. I. Brokaw	14.5	No	3,480,000
	Sept. 23	J. I. Brokaw	14.0	No	2,450,000
St. Stephens	July 28	Plfd. Milk & Cream Co.	14.0	No	3,460,000
	Sept. 23	Plfd. Milk & Cream Co.	14.5	No	3,200,000
	Dec. 19	J. I. Brokaw	12.0	No	897,000
Tier, Mrs. G.	July 28	Kennedy, Philadelphia	14.6	No	2,455,000
	Sept. 21	Kennedy, Philadelphia	11.5	No	3,350,000
Averages			13.5		3,012,533

ANALYSES

OF ICE CREAM MANUFACTURED IN PLAINFIELD

<i>Name</i>	<i>Date</i>	<i>Flavor</i>	<i>Color- ing</i>	<i>Gela- tine</i>	<i>% Fats</i>	<i>Bacteria Per C. C.</i>
Baker, L. L.	July 28	Vanilla	None	Yes	3.0	3,700,000
Debele & Stahl	July 29	"	"	"	5.4	2,890,000
	Sept. 21	"	"	"	8.2	1,200,000
	Sept. 21	Chocolate	"	"	4.8	1,100,000
	Sept. 21	Strawberry	Yes	"	3.5	1,800,000
	Dec. 19	Vanilla	None	"	4.0	832,000
	Dec. 19	Chocolate	"	"	3.0	944,000
	Dec. 19	Strawberry	Yes	"	4.0	973,000
	Dec. 19	Pistache	Yes	No	8.0	1,650,000
DeMolli & Co.	July 29	Fr. Vanilla	"	"	10.0	2,600,000
	Sept. 21	Vanilla	None	"	8.0	1,110,000
	Sept. 21	Fr. Straw	Yes	"	11.0	1,800,000
	Sept. 21	Fr. Vanilla	"	"	5.0	1,650,000
	Dec. 6	Vanilla	None	Yes	2.0	840,000
	Dec. 6	Fr. Straw	"	No	5.0	1,140,000
	Dec. 6	Fr. Vanilla	Yes	"	7.0	1,210,000
	Dec. 6	Chocolate	None	Yes	10.0	1,000,000
	Dec. 6	Pistache	Yes	No	11.0	958,000
	Dec. 6	Coffee	None	Yes	9.0	876,000
	Sept. 21	Peach	None	Yes	4.5	2,600,000
	Sept. 21	Vanilla	"	"	5.0	2,750,000

<i>Name</i>	<i>Date</i>	<i>Flavor</i>	<i>Color- ing</i>	<i>Gela- tine</i>	<i>% Fats</i>	<i>Bacteria Per C. C.</i>
Hall, Chas. H.	Dec. 19	Vanilla	None	Yes	6.0	848,000
Kolb Candy Co.	Dec. 6	Chocolate	None	Yes	2.5	2,140,000
	Dec. 6	Strawberry	Yes	"	1.0	2,189,000
	Dec. 6	Vanilla	None	"	2.5	1,843,000
Lohrman, A. C.	July 28	Vanilla	None	Yes	5.0	2,200,000
	Sept. 21	"	"	"	5.0	2,300,000
Lopresti, John	Sept. 21	Vanilla	None	Yes	4.0	3,240,000
	Sept. 21	Chocolate	"	"	5.5	2,460,000
	Sept. 21	Peach	"	"	3.0	3,900,000
	Dec. 19	Vanilla	"	"	3.0	1,140,000
Lohrman, A. C.	Sept. 21	Chocolate	None	Yes	4.5	3,260,000
	Sept. 21	Strawberry	Yes	"	5.1	1,250,000
	Dec. 19	Strawberry	"	"	6.0	953,000
	Dec. 19	Vanilla	None	"	7.0	996,000
	Dec. 19	Chocolate	"	"	6.0	981,000
Mills, E. R.	July 29	Vanilla	None	Yes	3.0	3,700,000
Risito, Peter	Sept. 21	Chocolate	None	None	3.0	2,800,000
	Sept. 21	Vanilla	"	"	6.0	2,650,000
	Dec. 19	"	"	"	2.0	1,050,000
Ritz Company	July 28	Bisque	None	Yes	6.0	2,145,000
	July 28	Vanilla	"	"	6.0	2,340,000
	Sept. 21	Vanilla	"	"	8.3	980,000
	Sept. 21	Strawberry	Yes	"	9.5	2,040,000
	Sept. 23	Coffee	None	"	6.0	2,600,000
	Dec. 6	Chocolate	"	"	5.0	1,384,000
	Dec. 6	Strawberry	Yes	"	5.5	1,249,000
	Dec. 6	Vanilla	None	"	4.0	1,100,000
St. Stephens	July 28	Vanilla	None	Yes	6.0	1,500,000
	July 28	Chocolate	"	"	4.0	2,350,000
	Sept. 23	Chocolate	"	"	8.0	3,240,000
	Sept. 23	Vanilla	"	"	9.0	1,630,000
	Sept. 23	Strawberry	Yes	"	10.0	1,000,000
	Dec. 19	Vanilla	None	"	8.0	823,000
Tier, Mrs. G.	Dec. 19	Chocolate	"	"	8.0	819,000
	July 28	Vanilla	None	Yes	7.0	1,800,000
	July 28	Strawberry	Yes	"	4.0	1,860,000
	July 28	Chocolate	None	"	3.0	3,290,000
	Sept. 21	Bisque	"	"	7.5	1,080,000
	Sept. 21	Chocolate	"	"	4.0	2,240,000
	Sept. 21	Vanilla	"	"	9.0	1,900,000
	Dec. 19	Chocolate	"	"	6.0	743,000
	Dec. 19	Vanilla	"	"	5.0	816,000
Averages					5.88	1,794,238

The following samples were from ice creams manufactured out of town:
 Cleveley, E. H.

[Horton's]	Dec. 19	Vanilla	None	None	2.0	1,635,000
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Name	Date	Flavor	Color- ing	Gela- tine	% Fats	Bacteria Per C. C.
Zeckendorf [Alderney]	Sept. 23	Vanilla	None	None	6.0	3,800,000
	Sept. 23	Peach	"	"	1.0	3,240,000
		Averages			3.0	2,891,167

The following samples were taken from Drug Stores:

Armstrong, T. S.	Sept. 23	Bisque	None	None	9.0	2,400,000
	Sept. 23	Vanilla	"	"	9.0	3,260,000
Hodge, P. B.	Sept. 21	"	"	"	2.0	990,000
Miller, D. S.	Sept. 23	"	"	"	5.5	960,000
Nagle, C. S.	Sept. 23	"	"	"	4.0	3,860,000
Randolph, L. W.	Sept. 23	"	"	Yes	8.0	1,230,000
Rowley, Frank	Sept. 23	"	"	None	8.0	1,630,000
Schreiner, B. J.	Sept. 23	"	"	Yes	10.0	1,140,000
		Averages			7.93	2,210,000

COMPARISON OF AVERAGES
OF ICE CREAM ANALYSES, 1908, 1909, 1910
CREAM USED IN MANUFACTURE OF ICE CREAM

Year	Fats	Bacteria Per C. C.
1908.....	19.10	5,087,826
1909.....	16.90	2,119,441
1910.....	13.50	3,012,533

ICE CREAM MANUFACTURED IN PLAINFIELD

1908.....	11.20	4,356,764
1909.....	5.55	1,790,000
1910.....	5.88	1,794,238

MILK SUPPLY

The work on the milk supply has been continued during the past year along the usual lines, and with very good results. That the matter has been given our careful attention is shown by the dairy scores and milk analysis.

The milk was distributed by 74 dealers, 28 of whom retail by means of wagon, 10 sell only a few quarts and 36 from stores. In connection with the milk supply the following inspections were made:

585	inspections of dairies
13	" " creameries
187	" " bottling places
381	" " milk wagons
350	" " stores

1310 Total inspections

It is our intention to make regular periodical inspections of dairies, creameries, etc., at least once each month, and this is done so far as it is

possible to do so. In most cases we have the co-operation of the dairymen and dealers in our efforts to obtain a milk upon whose quality and cleanliness the people of Plainfield may depend, but in order to do this, it requires constant attention by all concerned.

Samples of the regular milk supply are taken once a month and analyzed. Copies of the analyses, tabulated in the order of the number of bacteria per cubic centimeter, are sent to the dealers and any who are interested. Frequent inquiries received during the year from various householders show the interest of the public in the quality of the milk supply.

The total number of samples analyzed during 1910 was 449, divided as follows:

346 samples taken from regular dealers
65 samples taken from stores
38 special samples and samples brought to laboratory

449

There were 48 samples of cream also analyzed.

The following table will show some interesting comparisons:

No. containing less than	10,000 bacteria per c. c.	1909	1910
" " 10,000 — 20,000	" " "	17	28
" " 20,000 — 30,000	" " "	48	45
" " 30,000 — 50,000	" " "	67	66
" " 50,000 — 100,000	" " "	101	97
" " 100,000 — 200,000	" " "	112	108
" " over — 200,000	" " "	11	2
		1	0
Totals.....		357	346

The following table shows the comparison of averages of all samples of milk for the past nine years:

Year	Fats	Solids	Not Fat	Lacto-Meter	Bacteria Per C. C.
1902	4.38	13.23	8.85	111	128,553
1903	4.27	13.20	8.93	107	63,461
1904	3.97	12.94	8.97	107	97,891
1905	4.18	13.17	8.99	106	43,500
1906	4.05	13.01	8.96	106	142,311
1907	4.04	13.08	9.04	111	90,911
1908	4.10	13.17	9.07	113	51,887
1909	4.05	13.11	9.06	113	43,864
1910	3.99	13.05	9.06	113	38,720

In studying the tables of analyses on succeeding pages, it may be interesting to note that the highest fat content of any one sample was 5.6%, while the lowest was 2.8%. The highest average fat content of milk from

any one dealer was 4.87 and the lowest was 4.09%. No sample was found to be watered or to contain any preservative. The lowest bacterial count of any one sample was 3,700 and the highest was 114,000 per cubic centimeter. The lowest average bacterial count of milk from any one dealer was 3.775 and the highest 69,000 per c. c. The latter was very remarkable for market milk.

The following dealers hold permits to sell milk in Plainfield, at this date—December 31, 1910:

THE FOLLOWING DELIVER BY MEANS OF WAGON

<i>Name</i>	<i>Address</i>
Brokaw, J. I.	186 East Front Street
*Burnley Farms	R. F. D. No. 1
Debele, C. F.	R. F. D.
Dufford, Elijah	58 Jackson Avenue
Feller, Chas.	52 Chatham Street
Henry, G. W.	Fanwood, N. J.
Herbermann, J. A.	Warrenville, N. J.
Hummel, John	121 Duer Street
Kelly, Chris	824 Clinton Avenue
Knight, J. H.	1270 Park Avenue
Krog, R. H.	853 Terrill Road
Moffett, W. H.	1328 Watchung Avenue
Muller, Mrs. R.	South Stirling, N. J.
Miller, Milton	118 Everett Place
Peterson, Claus	1229 Cushing Road
Phillips, A. R.	122 North Avenue
Plainfield Milk & Cream Co.	112 Watchung Avenue
Schanz, E.	308 East Front Street
Smalley, Frank M.	Fanwood, N. J.
Squires, C. W.	957 West Fourth Street
Swenson, E. C.	Stirling, N. J.
Templin, Hiram	37 Pearl Street
Tingley, I. F.	Randolph Road
Voorhees, A. P.	Plainfield P. O. Box 732
Waldron, B. R.	3 Coddington Avenue
Williswood Farms Dairy Co.	
* [C. L. Jeter, Agent]	Belmont Avenue
Wood Brook Farms	Park Avenue, Cor. Bellevue
Wooden, George R.	Plainfield

*Sells Cream Principally

THE FOLLOWING SELL MILK FROM STORES

Bedell, Jacob	659 West Fourth Street
Bershad, M.	222 New Street
Blimm, J. C.	263 East Third Street

Burgess, Walter	232 Muhlenberg Place
Callahan, T. & Son	300 Richmond Street
Clawson, James T.	234 West Second Street
Crook, Wm. S.	664 South Avenue
Cullen, Frank	1001 South Second Street
Dajohn, Louis	214 Richmond Street
Davis, Edward W	937 West Fourth Street
Deutsch, Morris	305 Madison Avenue
Farbman, B.	520 West Third Street
Firstbrook, F. H.	316 Liberty Street
Holland, Mrs. Elizabeth	934 West Third Street
Jacobson, Conrad	525 West Third Street
Keenan, R. H.	442 West Fifth Street
Kline, Samuel	545 West Third Street
Kunzman, A.	535 West Third Street
Mann, Bernhard	120 West Fourth Street
Mann, Soloman	919 West Third Street
Mills, E. R.	1217 West Front Street
Neuman Bros.	501 Watchung Avenue
Newmark, Abe	537 West Third Street
Pasto, Mary	321 Richmond Street
Pollock, L.	643 West Third Street
Rottberg, Kalmen	505 West Third Street
Sharkey, S.	226 Richmond Street
Siegel, Harry	527 West Third Street
Skinner, F. J.	146 Central Avenue
Smith, C. O.	402 Liberty Street
Smith, J. A. & Bro.	151 West Front Street
Williams, J. G. & Co.	237 West Front Street
Wilson, Miles S.	229 Plainfield Avenue
Wilson, W. W.	816 West Third Street
Wilson, W. W.	1221 West Front Street
Wright, Wm. G.	320 Plainfield Avenue
Zimmerman, P.	347 Watchung Avenue

THE FOLLOWING RETAIL ONLY A FEW QUARTS

Bowden, Mrs. Mary	1525 West Third Street
Brown, James	1201 North Avenue
Coughlan, Edward	856 Leland Avenue
Dealaman, Wm. J.	950 West Front Street
Edson, Russell	825 Clinton Avenue
Fitch, Edgar L.	969 West Front Street
Gavin, E. P.	Plainfield P. O. Box 390
Guttridge, James B.	1121 South Avenue
Hansen, Mrs. Matilda	315 Johnston Avenue
Seal, William T.	432 East Sixth Street

MILK ANALYSIS—1910

<i>Date</i>	<i>Fats</i>	<i>Solids</i>	<i>Solids not fats</i>	<i>Lacto- meter</i>	<i>Bacteria per c. c.</i>	<i>Sediment</i>
J. I. Brokaw						
Jan. 21	3.8	12.86	9.06	116	99,000	Considerable
Feb. 28	3.7	12.67	8.97	109	62,500	Considerable
Mar. 9	3.4	12.38	8.98	109	64,500	Slight
Apr. 9	3.2	12.16	8.96	113	114,000	Much
May 10	4.0	13.00	9.00	118	73,000	Considerable
June 11	3.2	12.10	8.90	114	67,500	Considerable
July 27	3.3	12.26	8.96	110	59,500	Considerable
Aug. 10	3.7	12.68	8.98	103	59,000	Considerable
Sept. 14	4.5	13.64	9.14	93	62,000	Considerable
Oct. 18	4.0	13.09	9.09	107	56,000	Considerable
Nov. 22	3.7	12.67	8.97	102	47,500	Considerable
Dec. 5	4.0	13.08	9.08	112	56,000	Very Much

C. F. Debele

Jan. 24	4.6	13.72	9.12	119	23,500	Considerable
Feb. 25	4.4	13.49	9.09	115	22,000	Very Slight
Mar. 7	4.6	13.81	9.21	120	21,500	Slight
Apr. 13	4.4	13.50	9.10	115	40,000	Very Slight
May 11	4.6	13.76	9.16	115	28,000	Considerable
June 9	3.2	12.10	8.90	121	24,000	Much
July 26	4.5	13.59	9.09	111	21,000	Considerable
Aug. 10	4.6	13.80	9.20	113	19,000	Very Slight
Sept. 13	4.2	13.25	9.05	115	23,500	None
Oct. 19	4.7	13.90	9.20	117	24,000	Very Slight
Nov. 21	4.3	13.40	9.10	118	23,000	Slight
Dec. 5	4.4	13.56	9.16	120	29,500	Slight

Elijah Dufford

May 10	3.7	12.78	9.08	114	36,000	Very Much
June 13	4.1	13.13	9.03	108	52,500	Considerable
July 25	3.0	12.04	9.04	109	69,000	Considerable
Aug. 9	3.8	12.87	9.07	107	64,000	Very Slight
Sept. 13	3.8	12.78	8.98	110	83,000	Much
Oct. 17	4.6	13.79	9.19	112	56,000	Very Slight
Nov. 25	4.1	13.14	9.04	115	32,000	Very Much
Dec. 5	4.0	13.10	9.10	113	34,000	Considerable

Chas. Feller

Jan. 21	3.6	12.68	9.08	115	58,500	Slight
Feb. 24	3.9	12.90	9.00	113	51,500	Considerable
Mar. 7	4.0	13.08	9.08	119	71,000	Considerable
Apr. 9	3.6	12.55	8.95	115	71,000	Much
May 9	4.2	13.29	9.09	114	48,500	Considerable
June 10	4.0	13.01	9.01	112	53,500	Very Much
July 26	3.9	13.88	8.98	109	24,000	Slight
Aug. 9	3.9	12.99	9.09	108	43,000	Very Slight
Sept. 13	4.0	13.08	9.08	113	54,000	Very Slight
Oct. 17	3.6	12.64	9.04	113	49,500	Considerable
Nov. 21	3.2	12.17	8.97	114	22,500	Slight
Dec. 5	4.3	13.35	9.05	115	38,500	Considerable

<i>Date</i>	<i>Fats</i>	<i>Solids</i>	<i>Solids not fats</i>	<i>Lacto- meter</i>	<i>Bacteria per c. c.</i>	<i>Sediment</i>
B. C. Firstbrook						
Jan. 20	3.4	12.35	8.95	113	62,500	Considerable
Feb. 23	3.2	12.11	8.91	109	61,000	Considerable
Mar. 8	2.8	11.60	8.80	108	59,500	Considerable
Apr. 9	3.2	12.10	8.90	110	93,000	Very Slight
May 9	3.2	12.13	8.93	111	90,000	Slight
June 13	4.1	13.11	9.01	106	63,000	Slight
July 25	3.5	12.47	8.97	112	54,000	V V Much
G. W. Henry						
Jan. 20	3.5	12.49	8.99	100	111,500	Much
Feb. 23	3.6	12.62	9.02	112	66,500	Very Much
Mar. 9	2.9	11.76	8.86	106	63,000	Much
Apr. 13	3.7	12.74	9.04	108	76,500	Considerable
May 9	3.0	11.99	8.99	114	80,500	Very Much
June 10	3.9	12.86	8.96	105	71,500	Considerable
July 26	3.6	12.56	8.96	110	46,500	Very Slight
Aug. 9	3.4	12.30	8.90	110	52,000	Considerable
Sept. 15	3.6	12.57	8.97	110	73,000	Much
Oct. 18	4.0	13.03	9.03	111	43,000	Considerable
Nov. 25	3.6	12.58	8.98	110	33,500	Slight
Dec. 10	4.1	13.21	9.11	114	41,000	Very Much
J. A. Herbermann						
Jan. 20	3.8	12.83	9.03	117	79,500	Much
Feb. 23	3.9	12.91	9.01	113	71,000	Very Much
Mar. 7	3.7	12.76	9.06	107	71,000	Considerable
Apr. 13	3.9	12.94	9.04	104	77,000	Considerable
May 9	4.0	13.08	9.08	115	66,000	Considerable
June 10	4.2	13.24	9.04	107	43,000	Slight
July 25	3.5	12.36	8.86	113	58,000	V V Much
Aug. 9	3.9	12.86	8.96	111	56,000	Much
Sept. 14	4.2	13.27	9.07	108	58,500	Very Much
Oct. 17	4.1	13.13	9.03	114	59,500	Very Much
Nov. 23	4.4	13.57	9.17	111	31,000	Slight
Dec. 10	4.4	13.54	9.14	122	39,000	Very Much
John Hummel						
Jan. 24	3.4	12.36	8.96	112	65,500	Considerable
Feb. 24	4.3	13.41	9.11	115	40,500	Slight
Mar. 9	3.9	12.89	8.99	113	24,000	Much
Apr. 9	4.2	13.25	9.05	113	60,000	Very Much
May 10	3.6	12.65	9.05	120	28,000	Slight
June 9	3.4	12.35	8.95	114	41,000	Considerable
July 25	4.0	13.02	9.02	110	19,800	Considerable
Aug. 9	4.0	13.03	9.03	109	23,000	Considerable
Sept. 13	4.3	13.43	9.13	110	24,000	Very Slight
Oct. 17	3.9	12.91	9.01	108	58,000	Slight
Nov. 26	3.8	12.75	8.95	107	23,000	Considerable
Dec. 9	3.7	12.67	8.97	106	46,000	Considerable
Chris Kelly						
Jan. 20	4.4	13.55	9.15	115	72,500	Very Much
Mar. 9	3.6	12.56	8.96	118	43,000	Considerable

<i>Date</i>	<i>Fats</i>	<i>Solids</i>	<i>Solids not fats</i>	<i>Lacto- meter</i>	<i>Bacteria per c. c.</i>	<i>Sediment</i>
Chris. Kelly, Continued						
June 14	3.8	12.80	9.00	113	52,000	Very Slight
July 26	4.3	13.29	8.99	110	29,000	Considerable
Aug. 10	4.2	13.29	9.09	110	20,000	Very Slight
Sept. 13	3.5	12.49	8.99	112	35,500	None
Oct. 19	3.9	12.88	8.98	112	53,000	Very Slight
Nov. 23	4.2	13.31	9.11	111	22,000	Considerable
Dec. 10	4.0	13.10	9.10	110	33,000	Considerable

J. H. Knight

Jan. 20	3.6	12.65	9.05	109	57,000	Slight
Feb. 23	3.9	12.91	9.01	113	41,000	Slight
Mar. 7	3.9	12.97	9.07	109	57,000	Considerable
Apr. 13	3.9	12.94	9.04	106	58,500	Slight
May 10	4.5	13.63	9.13	106	48,000	Very Much
June 9	4.4	13.46	9.06	110	62,500	Considerable
July 25	4.1	13.14	9.04	112	22,000	Slight
Aug. 9	3.8	12.87	9.07	107	29,000	Very Slig
Sept. 13	3.8	12.88	9.08	108	38,000	Considerable
Oct. 17	5.0	14.15	9.15	111	36,000	None
Nov. 23	4.3	13.43	9.13	116	19,500	None
Dec. 5	4.4	13.55	9.15	118	18,500	Considerable

Hickory Grove Farm*(R. H. Krog)*

Jan. 21	4.0	13.15	9.15	117	9,350	None
Mar. 1	4.4	13.53	9.13	117	10,100	None
Mar. 9	4.2	13.26	9.06	117	10,550	Very Slight
Apr. 13	4.3	13.41	9.11	116	10,000	Very Slight
May 11	3.8	12.91	9.11	114	9,700	Very Slight
June 10	4.4	13.55	9.15	110	9,500	None
July 26	4.4	13.47	9.07	112	7,600	Considerable
Aug. 10	4.0	13.05	9.05	111	8,000	None
Sept. 15	4.1	13.22	9.12	107	10,200	None
Oct. 19	3.9	12.93	9.03	110	10,100	None
Nov. 25	4.4	13.53	9.13	110	8,850	Slight
Dec. 9	4.3	13.44	9.14	110	9,900	None

Milton Miller

Nov. 21	4.3	13.41	9.11	119	29,500	Slight
Dec. 5	4.4	13.55	9.15	115	30,000	Slight

W. H. Moffett

Jan. 21	4.1	13.15	9.05	118	18,100	Very Slight
Feb. 24	4.1	13.18	9.08	115	21,000	Considerable
Mar. 9	4.1	13.12	9.02	113	24,000	Very Slight
Apr. 9	3.8	12.76	8.96	115	29,000	Considerable
May 10	3.4	12.48	9.08	118	34,000	Considerable
June 9	3.8	12.76	8.96	113	25,500	Considerable
July 27	4.1	13.12	9.02	114	18,000	Considerable
Aug. 9	3.6	12.59	8.99	107	17,500	Very Slight
Sept. 13	3.2	12.17	8.97	113	28,000	Very Slight
Oct. 18	3.8	12.82	9.02	109	30,000	Slight
Nov. 25	4.3	13.37	9.07	100	20,000	Very Slight
Dec. 5	4.2	13.27	9.07	105	16,000	Very Slight

Date	Fats	Solids	Solids not fats	Lacto- meter	Bacteria per c. c.	Sediment
Mrs. R. Muller						
Jan. 21	4.4	13.50	9.10	116	48,000	Considerable
Feb. 24	4.3	13.42	9.12	113	37,000	Considerable
Mar. 7	4.6	13.83	9.23	120	62,500	Slight
Apr. 9	3.9	12.86	8.96	121	70,500	Considerable
May 9	3.4	12.47	9.07	110	50,000	Considerable
June 9	3.6	12.51	8.91	118	47,000	Very Slight
July 25	3.4	12.35	8.95	110	34,000	Much
Aug. 9	4.2	13.19	8.99	112	39,000	Very Slight
Sept. 15	4.0	13.07	9.07	110	49,000	None
Oct. 19	4.0	13.03	9.03	109	46,000	Very Slight
Nov. 28	3.6	12.55	8.95	118	28,000	Considerable
Dec. 6	5.2	14.40	9.20	111	32,000	Very Slight

Claus Peterson

Jan. 25	4.1	13.19	9.09	110	23,000	Very Slight
Feb. 28	5.0	14.20	9.20	116	21,500	Slight
Mar. 9	4.8	13.95	9.15	117	21,500	Considerable
Apr. 9	4.7	13.92	9.22	118	32,500	Considerable
May 11	5.3	14.58	9.28	112	21,000	Very Slight
June 10	4.6	13.73	9.13	119	21,500	None
July 27	5.4	14.61	9.21	121	18,500	Very Slight
Aug. 10	4.6	13.76	9.16	120	22,000	Very Slight
Sept. 13	4.0	13.11	9.11	114	19,500	None
Oct. 19	4.7	13.91	9.21	116	21,000	None
Nov. 25	4.2	13.29	9.09	113	16,000	Considerable
Dec. 10	4.8	14.01	9.21	119	21,000	Slight

Raritan Valley Farms Certified

Nov. 21	3.8	12.92	9.12	119	3,850	None
Dec. 4	3.6	12.73	9.13	117	3,700	None

A. R. Phillips

Jan. 20	4.0	13.05	9.05	116	50,000	Slight
Feb. 23	3.4	12.34	8.95	113	50,500	Considerable
Mar. 7	4.1	13.20	9.10	119	66,000	Very Slight
Apr. 9	3.6	12.56	8.96	113	69,500	Considerable
May 9	3.5	12.53	9.03	112	43,000	Much
June 9	3.4	12.36	8.96	118	48,500	Considerable
July 27	3.5	12.47	8.97	112	49,500	Considerable
Aug. 10	3.6	12.63	9.03	110	47,000	Very Much
Sept. 15	3.4	12.35	8.95	107	59,500	Slight
Oct. 20	3.7	12.68	8.98	112	59,500	Considerable
Nov. 25	3.5	12.49	8.99	113	38,000	Considerable
Dec. 9	3.8	12.80	9.00	114	39,500	Considerable

A. R. Phillips*(Clarkhurst Farms Monogram)*

Jan. 21	3.2	12.10	8.90	113	24,950	Slight
Feb. 28	3.6	12.58	8.98	110	16,300	Very Slight
Mar. 7	3.6	12.71	9.11	109	21,100	Slight
Apr. 9	2.8	11.50	8.70	111	20,300	Very Much
May 10	3.1	11.99	8.89	115	26,000	Slight
June 13	3.7	12.70	9.00	111	14,700	Considerable
July 26	3.3	12.26	8.96	107	36,000	Considerable

Date	Fats	Solids	Solids not fats	Lacto- meter	Bacteria per c. c.	Sediment
A. R. Phillips, Continued.						
Aug. 10	3.4	12.42	9.02	106	30,000	Slight
Sept. 14	2.7	11.54	8.84	109	29,000	None
Oct. 18	3.4	12.37	8.97	112	21,000	Very Slight

A. R. Phillips (Clarkhurst Farms)						
Jan. 21	3.6	12.57	8.97	113	19,050	None
Feb. 28	3.9	12.88	8.98	112	12,750	None
Mar. 7	3.8	12.93	9.13	109	10,450	Slight
Apr. 9	2.8	11.52	8.72	113	17,500	Slight
May 10	4.2	13.13	8.93	108	11,600	Very Slight
June 13	4.6	13.74	9.14	110	12,100	None
July 26	4.0	13.03	9.03	111	13,400	Very Slight
Aug. 10	3.7	12.74	9.04	108	13,500	None
Sept. 14	3.2	12.16	8.96	107	14,300	None
Oct. 18	4.0	13.10	9.10	110	12,700	Very Slight

A. R. Phillips (Extra Quality)						
Nov. 21	3.6	12.67	9.07	112	9,850	None
Dec. 5	3.8	12.93	9.13	110	10,000	Very Slight

Plainfield Milk & Cream Company						
Jan. 21	3.7	12.76	9.06	114	50,000	Slight
Feb. 28	4.1	13.13	9.03	112	43,500	Very Slight
Mar. 7	4.3	13.40	9.10	117	38,000	Considerable
Apr. 9	3.6	12.56	8.96	114	63,500	Very Slight
May 10	3.9	12.93	9.03	115	67,000	Considerable
June 11	3.6	12.58	8.98	120	52,000	Considerable
July 27	4.0	13.02	9.02	112	46,500	Slight
Aug. 9	4.0	13.04	9.04	112	39,500	Much
Sept. 14	3.8	12.86	9.06	109	57,000	Considerable
Oct. 19	3.7	12.71	9.01	110	54,000	Slight
Nov. 22	4.0	13.05	9.05	116	34,500	Slight
Dec. 9	4.0	13.06	9.06	108	50,000	Slight

Plainfield Milk & Cream Company (Quaker Hill Farm)						
Jan. 21	4.5	13.69	9.19	117	12,300	Very Slight
Feb. 28	5.2	14.44	9.24	116	13,050	Very Slight
Mar. 7	5.1	14.36	9.26	120	10,400	Very Slight
Apr. 9	5.0	14.26	9.26	118	13,800	Slight
May 10	5.0	14.30	9.30	118	10,000	None
June 11	5.0	14.20	9.20	115	8,300	Very Slight
July 27	5.3	14.46	9.16	116	8,000	Slight
Aug. 9	4.6	13.78	9.18	116	8,100	None
Sept. 14	4.6	13.79	9.19	120	10,000	Very Slight
Oct. 20	4.9	14.13	9.23	119	10,300	None
Nov. 22	4.7	13.90	9.20	119	8,550	None
Dec. 9	4.6	13.79	9.19	114	8,300	None

P. J. Regan						
Jan. 25	4.8	14.01	9.21	121	32,000	Considerable
Feb. 24	4.4	13.53	9.13	116	31,000	Considerable
Mar. 9	4.6	13.75	9.15	120	31,500	Considerable

<i>Date</i>	<i>Fats</i>	<i>Solids</i>	<i>Solids not fats</i>	<i>Lacto- meter</i>	<i>Bacteria per c. c.¹¹</i>	<i>Sediment</i>
E. Schanz						
Jan. 25	3.8	12.79	8.99	110	61,500	Slight
Feb. 23	3.8	12.79	8.99	114	43,000	Considerable
Mar. 7	3.9	12.96	9.06	115	51,000	Considerable
Apr. 9	3.2	12.16	8.96	113	66,000	Slight
May 10	3.6	12.66	9.06	111	39,000	Slight
June 9	3.1	12.02	8.92	111	60,500	Very Slight
July 27	3.7	12.70	9.00	114	50,000	Very Slight
Aug. 9	4.0	13.09	9.09	110	57,000	Very Slight
Sept. 13	4.4	13.51	9.11	112	49,000	Considerable
Oct. 17	3.6	12.56	8.96	112	61,000	Slight
Nov. 23	4.4	13.61	9.21	110	21,000	Very Much
Dec. 9	3.8	12.79	8.99	107	33,500	Very Much
C. W. Squires						
Jan. 24	4.2	13.29	9.09	117	27,000	Slight
Feb. 24	4.0	13.08	9.08	113	28,000	Slight
Mar. 9	3.8	12.85	9.05	115	19,000	None
Apr. 9	3.4	12.38	8.98	113	41,000	Very Slight
May 10	3.5	12.56	9.06	113	30,000	Slight
June 13	3.2	12.10	8.90	108	25,000	None
July 25	3.4	12.36	8.96	110	26,000	None
Aug. 9	4.0	13.05	9.05	110	22,000	Very Slight
Sept. 15	3.4	12.40	9.00	106	20,000	Considerable
Oct. 19	3.9	12.90	9.00	104	48,000	Very Much
Nov. 23	4.0	13.09	9.09	108	18,500	Slight
Dec. 5	4.0	13.06	9.06	115	20,000	Very Slight
Frank M. Smalley						
Jan. 25	3.8	12.85	9.05	112	18,500	Very Slight
Feb. 28	4.3	13.37	9.07	113	22,000	Very Slight
Mar. 8	4.3	13.44	9.14	114	20,000	Very Slight
Apr. 9	4.2	13.20	9.10	112	22,500	Very Slight
May 9	4.0	13.07	9.07	116	32,000	Very Slight
June 9	3.4	12.34	8.94	119	20,000	Slight
July 26	4.5	13.55	9.05	111	28,000	None
Aug. 9	4.6	13.74	9.14	115	19,000	Much
Sept. 13	4.3	13.44	9.14	118	17,500	None
Oct. 19	4.6	13.77	9.17	118	33,000	None
Nov. 23	4.5	13.69	9.19	118	9,950	None
Dec. 5	4.2	13.34	9.14	114	12,000	Considerable
E. C. Swenson						
Jan. 24	3.6	12.59	8.99	110	92,500	Considerable
Feb. 23	4.0	13.04	9.04	110	61,000	Very Much
Mar. 7	3.6	12.65	9.05	106	63,000	Considerable
Apr. 9	3.4	12.36	8.96	112	81,500	Very Much
May 10	3.4	12.47	9.07	114	78,000	Considerable
June 9	3.8	12.78	8.98	114	63,500	V. V. Much
July 25	3.5	12.49	8.99	110	52,000	Slight
Aug. 10	3.6	12.73	9.13	114	39,000	Very Much
Sept. 13	4.2	13.29	9.09	110	46,500	Considerable
Oct. 19	4.4	13.46	9.06	110	59,000	Considerable
Nov. 29	4.2	13.30	9.10	115	34,000	Considerable
Dec. 10	4.8	14.02	9.22	105	50,000	Very Much

<i>Date</i>	<i>Fats</i>	<i>Solids</i>	<i>Solids not fat</i>	<i>Lacto- meter</i>	<i>Bacteria per c. c.</i>	<i>Sediment</i>
Hiram Templin						
Jan. 21	3.5	12.52	9.02	116	61,500	Slight
Feb. 24	4.4	13.65	9.25	116	35,000	Considerable
Mar. 7	5.0	14.23	9.23	117	46,500	Slight
Apr. 9	4.4	13.59	9.19	115	58,500	Much
May 9	4.8	13.96	9.16	117	40,000	Very Much
June 9	4.3	13.36	9.06	110	45,000	Considerable
July 25	4.0	13.06	9.06	112	38,000	Considerable
Aug. 9	4.6	13.70	9.10	114	30,000	Very Slight
Sept. 13	5.4	14.63	9.23	109	21,000	Very Slight
Oct. 17	3.8	12.77	8.97	100	43,500	None
Nov. 23	5.1	14.33	9.23	115	17,500	Very Slight
Dec. 5	4.1	13.21	9.11	116	15,000	Very Slight

A. P. Voorhees

Jan. 20	3.9	12.98	9.08	113	93,500	Considerable
Feb. 24	4.5	13.65	9.15	115	51,500	Much
Mar. 9	4.0	13.04	9.04	114	69,000	Much
Apr. 9	3.6	12.57	8.97	112	90,500	Very Much
May 9	3.2	12.16	8.96	115	71,000	None
June 13	3.9	12.91	9.01	112	60,500	None
July 25	4.6	13.70	9.10	113	29,000	Considerable
Aug. 9	4.4	13.49	9.09	113	47,000	Very Slight
Sept. 14	3.5	13.63	9.13	108	58,000	Very Much
Oct. 17	3.4	12.51	9.11	108	60,000	Considerable
Nov. 23	5.0	14.23	9.23	118	32,000	Considerable
Dec. 5	5.6	14.80	9.20	115	49,000	Much

B. R. Waldron

Jan. 20	3.4	12.43	9.03	110	89,500	Very Slight
Feb. 23	3.7	12.70	9.00	112	41,500	Considerable
Mar. 7	4.2	13.33	9.13	115	60,000	Considerable
Apr. 9	3.4	12.34	8.94	109	73,000	Considerable
May 9	3.8	12.84	9.04	114	40,000	Very Much
June 11	3.4	12.35	8.95	113	42,500	Considerable
Aug. 10	3.3	12.27	8.97	102	34,000	Considerable
Sept. 15	3.3	12.25	8.95	108	62,000	Considerable
Oct. 17	3.7	12.69	8.99	112	52,000	Much
Nov. 23	3.9	12.89	8.99	111	40,000	Slight
Dec. 5	3.4	12.41	9.01	114	39,000	Considerable

West End Dairy

Jan. 24	3.6	12.59	8.99	112	53,000	Considerable
Feb. 26	3.8	12.81	9.01	112	58,500	Considerable
Mar. 9	3.4	12.34	8.94	105	49,500	Considerable
Apr. 9	3.2	12.16	8.96	108	73,500	Slight
May 11	3.3	12.29	8.99	114	49,000	Considerable
June 13	4.4	13.44	9.04	111	53,500	None

Willswood Farms Dairy Company

Jan. 25	3.6	12.56	8.96	106	43,500	Very Slight
Feb. 24	4.0	13.06	9.06	112	43,000	Slight
Mar. 9	3.9	12.89	8.99	116	44,000	Very Slight
Apr. 9	3.7	12.75	9.05	114	59,500	Slight
May 9	4.0	13.10	9.10	116	41,000	Slight

Date	Fats	Solids	Solids not fats	Lacto- meter	Bacteria per c. c.	Sediment
Willswood Farms Dairy Company, Continued.						
June 9	4.0	13.04	9.04	113	60,500	None
July 25	3.9	12.90	9.00	111	32,000	None
Aug. 9	4.2	13.28	9.08	110	39,000	None
Sept. 15	3.7	12.69	8.99	110	38,000	None
Oct. 17	3.8	12.86	9.06	110	34,000	None
Nov. 21	4.1	13.19	9.09	113	40,300	Very Slight
Dec. 9	4.0	13.02	9.02	117	33,500	Considerable

Woodbrook Farms						
Jan. 20	4.4	13.53	9.13	116	7,900	None
Feb. 23	4.5	13.66	9.16	117	7,050	None
Mar. 7	4.7	13.94	9.24	119	8,200	None
Apr. 9	4.2	13.34	9.14	116	7,700	Very Slight
May 12	4.1	13.31	9.21	115	7,700	None
June 14	4.5	13.66	9.16	116	7,100	None
July 27	4.3	13.41	9.11	115	8,840	V. V. Slight
Aug. 10	4.0	13.11	9.11	112	7,950	Slight
Sept. 13	4.0	13.13	9.13	119	9,200	None
Oct. 19	4.3	13.46	9.16	118	9,900	None
Nov. 23	4.5	13.70	9.20	120	6,450	Very Slight
Dec. 6	4.6	13.79	9.19	117	5,700	V. V. Slight

G. R. Wooden						
Jan. 20	4.0	13.09	9.09	116	39,000	Considerable
Feb. 25	4.3	13.37	9.07	116	27,000	Slight
Mar. 7	4.4	13.53	9.13	117	28,000	Considerable
Apr. 9	4.2	13.32	9.12	114	42,000	Much
May 12	4.2	13.28	9.08	112	70,000	Considerable
June 9	3.8	12.81	9.01	118	29,500	Much
July 25	4.1	13.07	8.97	112	20,000	Considerable
Aug. 10	4.4	13.55	9.15	109	16,000	Considerable
Sept. 13	4.0	13.10	9.10	111	21,000	None
Oct. 18	4.6	13.71	9.11	112	30,000	None
Nov. 29	3.8	12.84	9.04	118	24,000	Very Slight
Dec. 5	4.2	13.27	9.07	117	20,000	Very Slight

TABLE SHOWING THE AVERAGE OF THE SAMPLES OF MILK TAKEN FROM THE DIFFERENT DEALERS DURING 1910, TABULATED IN ALPHABETICAL ORDER

Name	Fats	Solids	Solids not fats	Lacto Meter	Bacteria per c. c.
Brokaw, John I.	3.71	12.71	9.00	109	67,625
Debele, Chas. F.	4.38	13.29	9.11	117	24,917
Dufford, Elijah	3.89	12.95	9.06	111	52,212
Feller, Charles	3.85	12.88	9.03	113	48,792
Firstbrook, B. C.	3.34	12.27	8.91	110	69,000
Henry, G. W.	3.58	12.56	8.98	109	63,208
Herbermann, J. A.	4.00	13.04	9.04	112	59,125
Hummel, John	3.87	12.89	9.02	111	37,734
Kelly, Chris	4.00	13.10	9.04	112	40,000
Knight, J. H.	4.13	13.22	9.09	110	40,583
Krog, R. H., (Hickory Grove F.)	4.19	13.29	9.10	113	9,488

Name	Fats	Solids	Solids not fats	Lacto Meter	Bacteria per c. c.
Miller, Milton	4.35	13.48	9.13	117	29,750
Moffett, W. H.	3.87	12.89	9.02	112	23,425
Muller, Mrs. R.	4.05	13.10	9.05	114	45,250
Peterson, Claus	4.68	13.85	9.17	116	21,583
Phillips, A. R.	3.63	12.62	8.99	113	51,709
" (Raritan Valley F. Cert.)	3.70	12.83	9.13	118	3,775
" (Clarkhurst Monogram)	3.28	12.22	8.94	110	23,935
" (Clarkhurst Farms)	3.78	12.78	9.00	110	13,735
" "Extra Quality"	3.70	12.80	9.10	111	9,925
Plainfield Milk & Cream Co.	3.89	12.92	9.03	113	49,625
" (Quaker Hill Farm)	4.87	14.09	9.22	117	10,092
Regan, P. J.	4.60	13.76	9.16	119	31,500
Schanz, E.	3.78	12.80	9.02	112	49,375
Smalley, Frank M.	4.23	13.33	9.10	114	21,254
Squires, C. W.	3.76	12.75	9.03	111	27,041
Swenson, E. C.	3.88	12.93	9.05	111	60,000
Templin, Hiram	4.45	13.58	9.13	113	37,625
Voorhees, A. P.	4.22	13.31	9.09	113	59,250
Waldron, B. R.	3.59	12.59	9.00	111	52,136
West End Dairy, (D. Wyckoff)	3.61	12.60	8.99	110	56,167
Willswood Farms Dairy Co.	3.91	12.95	9.04	112	42,358
Wood Brook Farms	4.34	13.50	9.16	117	7,641
Wooden, George R.	4.17	13.25	9.08	114	30,542

The following dealers from whom twelve samples of milk were taken are rated first, according to the average bacteria for the year, and second, according to the average fats and solids:

Name	Bacteria per C. C.	Name	Fats	Solids
1 Wood Brook Farms	7,641	*Plfd Milk & Cream Co.	4.87	14.09
2 Hickory Grove Farm	9,488	Peterson, Claus	4.68	13.85
3 Plfd Milk & Cream Co.*	10,992	Templin, Hiram	4.45	13.58
4 Smalley, Frank	21,254	Debele, C. F.	4.38	13.49
5 Peterson, Claus	21,583	Wood Brook Farms	4.34	13.50
6 Moffett, W. H.	23,425	Smalley, Frank	4.23	13.55
7 Debele, C. F.	24,917	Voorhees, A. P.	4.22	13.31
8 Squires, C.	27,041	Hickory Grove Farm	4.19	13.29
9 Wooden, G. W.	30,542	Wooden, G. W.	4.17	13.25
10 Templin, Hiram	37,625	Knight, J. H.	4.13	13.22
11 Hummel, John	37,733	Muller, Mrs. R.	4.05	13.10
12 Knight, J. H.	40,583	Herbermann, J. A.	4.00	13.04
13 Willswood Farms Co.	42,358	Willswood Farms Co.	3.91	12.95
14 Muller, Mrs. R.	45,250	Plfd Milk & Cream Co.	3.89	12.92
15 Feller, Chas.	48,792	Swenson, E. C.	3.88	12.93
16 Schanz, Chas.	49,375	Hummel, John	3.87	12.89
17 Plfd Milk & Cream Co.	49,625	Moffett, W. H.	3.87	12.89
18 Phillips, A. R.	51,709	Feller, Chas.	3.85	12.88
19 Waldron, B. R.	52,136	Schanz, Chas.	3.78	12.80
20 Herberman, J. A.	59,125	Squires, C. W.	3.73	12.76
21 Voorhees, A. P.	59,250	Brokaw, J. I.	3.71	12.71

* Milk from Quaker Hill Farm.

		<i>Bacteria</i>			
	<i>Name</i>	<i>per C. C.</i>	<i>Name</i>	<i>Fats</i>	<i>Solids</i>
22	Swenson, E. C.	60,000	Phillips, A. R.	3.63	12.62
23	Henry, G. W.	63,208	Waldron, B. R.	3.59	12.59
24	Brokaw, J. I.	67,625	Henry, G. W.	3.58	12.56

Less than twelve samples of milk were taken from the following dealers, and they are, therefore, placed in a separate table:

Raritan Valley Farms	3,775	Regan, P. J.	4.60	13.76
Phillips, Extra Quality	9,925	Miller, Milton	4.35	13.48
Phillips, Clarkhurst Farms	13,735	Kelly, Chris	3.99	13.03
Phillips, Clarkhurst Mono.	23,935	Dufford, E.	3.89	12.95
Miller, Milton	29,750	Phillips, Clarkhurst	3.78	12.78
Regan, P. J.	31,500	Phillips, R. V. Farms	3.70	12.83
Kelly, Chris	40,000	Phillips, Extra Quality	3.70	12.80
Dufford, E.	53,312	West End Dairy	3.61	12.60
West End Dairy	56,167	Firstbrook, B. C.	3.34	12.27
Firstbrook, B. C.	69,000	Phillips, A. R.		
		(Clarkhurst Mono.)	3.28	12.22

DAIRY SCORES

The average scores of the dairies which supplied milk in Plainfield during 1910, are tabulated according to their rating:

	<i>Total</i> <i>Average Score</i>	
Wood Brook Farms	98.88%	
Burnley Farms	98.60	
Clarkhurst Farms		
Bottling Places	98.30	
Own Dairy	95.60	96.95
Krog, R. H.		89.00
Firstbrook, B. C.		
Bottling Place	83.00	
B. Meyers	92.50	87.75
Miller, Milton		
Bottling Place	85.00	
Chas. Clark	86.00	85.50
Squires, C. W.		
George Hadley		80.40
Knight, J. H.		
Bottling Place	97.50	
C. B. Isham	87.80	
G. D. Disbrow	58.80	
Mrs. Wittinson	74.80	79.75
Henry, G. W.		
Own Dairy	66.90	
B. Meyers	92.50	79.70
Smalley, Frank		78.60
Feller, Charles		
Bottling Place	99.00	
W. P. Waldron	75.30	

		<i>Total Average Score</i>
J. H. Snowden	61.70	
William Moon	77.70	78.42
Willswood Farms Dairy Company		
Creamery	100.00	
W. A. Seward	94.30	
J. J. Yaeger	86.30	
Fred King	86.00	
Drake Bros.	86.60	
H. R. Hopkins	81.80	
Ferd Salmon	80.60	
J. D. Saunders	75.90	
S. D. Conklin	84.00	
C. A. Stephens	75.80	
Edward Batson	73.00	
George Salmon	69.50	
Fred Howell	65.20	
Sanford Rinkle	67.50	
John McClain	45.50	78.13
Peterson, Claus		77.40
Schanz, E.		
Bottling Place	96.50	
Len Melick	78.20	
John Van Devere	65.60	
George Butts	72.00	
Fred Stangel	68.00	76.06
Moffett, W. H.		
Own Dairy	78.80	
G. E. Elbertson	73.30	76.05
Dufford, Elijah		
Bottling Place	82.50	
Benj. Scribner	69.30	75.90
West End Dairy		
Bottling Place	99.00	
Benj. Scribner	69.30	
Frank Cope	67.30	
Fred Stangel	68.20	
George Butts	75.40	75.84
Brokaw, J. I.		
Creamery	99.50	
F. G. Sharp	77.40	
F. G. Sharp	72.40	
Wm. Higgins	74.90	
G. D. Wilson	69.00	
S. Latzko	72.00	

		<i>Total Average Score</i>
E. L. Blaufuss	66.20	
A. W. TenEyck	72.20	75.48
Debele, Chas. F.		75.20
Voorhees, A. P.		75.00
Phillips, A. R.		
Creamery	97.50	
Bottling Place, (Grandview Ave).	85.00	
Bottling Place, (North Ave).	98.50	
Clarkhurst Dairy	95.60	
Raritan Valley Farms	99.00	
B. Meyers	96.00	
E. E. Cooper	76.30	
C. B. Alpaugh	76.40	
H. F. Apgar	59.00	
Alonzo Apgar	58.60	
Willard Apgar	73.50	
George Abel	82.90	
Geo. W. Allegar	61.50	
W. H. Anderson	81.60	
N. L. Anderson	82.30	
Elijah Beam	55.00	
Andre Creagar	63.00	
Fred Creagar	75.00	
Harvey Fleming	59.30	
Chris Hildebrant	62.10	
George S. Hoffman	63.50	
Andrew Lindeberry	72.00	
E. L. Neighbor	76.30	
John Pace	68.40	
Joseph Slicker	61.80	
Jacob Slater	48.00	
Eli Sutton	86.10	
L. D. Sutton	75.20	
L. D. Sutton & Son	74.20	
George Tiger	81.10	74.82
Swenson, E. C.		
Bottling Place	83.70	
John McGrath	69.40	
Geo. Cornish	64.00	72.36
Templin, Hiram		
Bottling Place	97.50	
Wm. Mernaugh	71.30	
S. N. Dilts	75.50	
Benjamin Scribner	69.30	
James Anthony	48.00	72.32

Total
Average Score

Herbermann, J. A.		
Bottling Place	91.70	
Frank Coddington	55.90	
E. L. Pollock	69.30	
Cornelius Geddis	69.20	71.52
Muller, Mrs. R.		71.30
Waldron, B. R.		
Bottling Place	77.50	
Creamery	97.50	
C. B. Alpaugh	76.40	
H. F. Apgar	59.00	
Alonzo Apgar	58.60	
Willard Apgar	73.50	
George Abel	82.90	
George W. Allegar	61.50	
W. H. Anderson	81.60	
N. L. Anderson	82.30	
Elijah Beam	55.00	
Andre Creagar	63.00	
Fred Creagar	75.20	
Harvey Fleming	59.30	
Chris Hildebrandt	62.10	
George Hoffman	63.50	
Andrew Lindeberry	72.00	
E. L. Neighbor	76.30	
John Pace	68.40	
Jacob Slater	48.00	
Joseph Slicker	61.80	
Eli Sutton	86.10	
L. D. Sutton	75.20	
L. D. Sutton & Son	74.20	
George Tiger	81.10	70.88
Hummel, John		
Dairy	69.50	
Frank Styles	67.30	68.40
Kelly, Chris		67.70
Plainfield Milk & Cream Company		
Bottling Place	100.00	
Creamery	100.00	
Quaker Hill Farm	94.00	
A. Apgar	81.00	
S. Alpaugh	52.00	
H. M. Biglow	53.00	
John Chegwiddden	60.00	
A. Fritz	62.00	

		<i>Total Average Score</i>
Joseph Gerrard	69.50	
George Holtzhower	65.00	
George Hoffman	70.60	
N. F. Hoppock	61.00	
E. W. Mayberry	54.00	
W. H. Petty	59.00	
Paul Scott	69.50	
Chas. Ryman	69.30	
George Shirts	65.50	
Peter Weller	50.00	
J. Yaeger	57.50	
John Hockenberry	72.00	
R. W. Stires	64.20	
J. H. Van Sickle	60.00	
Harvey Coleman	52.00	
Edward Hackett	50.00	
Lou Saunders	56.00	
F. Schrop	65.00	
Al Rounsval	65.00	
Al Ammerman	65.00	
Wm. Cheswick	45.00	
P. Creagar	53.00	
Wm. Melick	71.00	
John Mayberry	51.50	
Edward Stires	65.00	
John Proctor	76.00	
William Britton	45.00	
J. O. Fritz	72.00	
George Mackey	55.00	
T. T. Baylor	89.00	
John Force	65.00	
J. S. Smith	62.00	
C. V. Moore	52.00	
David Smith	70.00	
C. Y. Smith	70.00	
Will Hornbaker	68.00	
J. R. Opdyke	77.00	
Chas. Potter	54.00	
Chris Smith	55.50	
Ed Bennett	79.00	
Chas. Hawk	81.00	65.08
Regan, P. J.		64.10
Wooden, G. R.		
Own Dairy	62.10	
J. H. Snowden	61.70	61.90

SUMMARY OF SCORES

<i>Dairies</i>					1908	1909	1910
No. having average scores of	90	—	100%		2	5	7
" " " " " 80	—	90			10	11	17
" " " " " 70	—	80			61	36	38
" " " " " 60	—	70			36	36	46
" " " " " 50	—	60			12	43	20
" " " " " Below	50				0	19	5
Totals					131	150	133

BOTTLING PLACES

No. having average score of	90	—	100%		11	9
" " " " " 80	—	90			1	5
" " " " " 70	—	80			1	1
Totals					13	15

CREAMERIES

Nc. having average score of	90	—	100%		3	4
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THE FOLLOWING TABLE SHOWS THE AVERAGE DAIRY SCORES FOR THE PAST
THREE YEARS

<i>Name</i>	1908	1909	1910
Wood Brook Farms	98.50	98.88	98.88
Burnley Farms	87.00	95.10	98.60
Clarkhurst Farms	96.80	97.05	96.95
Krog, R. H.	77.00	86.50	89.00
Firstbrook, B. C.	69.60	79.60	87.75
Miller, Milton			85.50
Squires, C. W.	74.10	76.43	80.40
Knight, J. H.	73.70	75.68	79.75
Henry, G. W.	72.50	58.30	79.70
Smalley, Frank		72.50	78.60
Feller, C. W.	87.50	71.88	78.42
Willswood Farms Dairy Company	78.80	69.99	78.13
Peterson, Claus	64.50	74.50	77.40
Schanz, E.	74.10	76.42	76.06
Moffett, W. H.	71.90	68.40	76.05
Dufford, Elijah			75.90
West End Dairy	80.40	73.28	75.84
Brokaw, J. I.	72.80	68.73	75.48
Debele, C. F.	77.40	70.70	75.20
Voorhees, A. P.	74.80	72.90	75.00
Phillips, A. R.	71.90	67.55	74.82

<i>Name</i>	1908	1909	1910
Swenson, E. C.	64.70	60.00	72.36
Templin, Hiram	74.50	74.38	72.32
Herbermann, J. A.	69.80	63.35	71.52
Muller, Mrs. R.	64.90	76.50	71.30
Waldron, B. R.	76.00	75.70	70.88
Hummel, John	70.40	72.88	68.40
Kelly, Chris		66.30	67.70
Plainfield Milk & Cream Company	65.70	51.76	65.08
Regan, P. J.	72.20	64.10	64.10
Wooden, G. R.	71.00	60.10	61.90
Totals	75.01	72.79	77.39

It will be noted from the above table that the average score for 1910 was higher than for either of the two previous years—a fact which speaks for the general improvement of the dairies.

ICE SUPPLY

The ice supplied in the city for 1910 was obtained from three sources: Watchung Lake, Seeley's Pond and the Crystal Ice Company's plant.

WATCHUNG LAKE

An inspection was made of this watershed and the conditions found were very good.

The only objection to this lake as a source of ice supply for this coming year is that the lake receives all the surface drainage from the road on the southeasterly side. In making over this road, the County has filled in the ditch which formerly conveyed the drainage to below the dam, and pipes have been laid through which the surface drainage is discharged directly into the lake, and during the heavy rains, the amount is considerable. However, the pollution is comparatively slight, as it is very dilute, and in freezing, the most of the impurities in the water are forced downward.

SEELEY'S POND

The ice from this source was sold principally in the Necherwood section of the city, and then for only a part of the season, as the supply was not very large. Toward the latter part of the year, the Company bought ice from The Crystal Ice Company. The pond is situated on the mountain at Scotch Plains and is fed by two streams, one rising in the mountain from a spring, and the other touches the cutskirts of Summit. The districts through which the streams flow and the pond is situated, are slightly populated. No sample of this ice was taken for analysis this past year, but a previous analysis showed it to be of fair quality.

CRYSTAL ICE

This ice is manufactured in the city—the can method being used. The water used is from a private well, driven to a depth of 240 feet. Sanitary methods are used throughout. The ice was of very good quality.

ANALYSIS OF ICE
(Parts per 1,000,000)

	<i>Plainfield Ice and Supply Co. (Natural)</i>	<i>Crystal Ice (Artificial)</i>
Color	0	0
Odor, Cold	0	1
Odor, Hot	0	2
Turbidity	Slight	0
Nitrogen:		
As Ammonia	.256	.180
By permanganate in solution	.072	.056
As Nitrites	.007	.008
As Nitrates	0.0	0.0
Chlorine	0.0	0.0
B. Coli Communis	Absent	Absent

WATER ANALYSIS

In accordance with our usual custom, a sample of City water was taken once each month, and sent to the State Laboratory of Hygiene at Trenton, for analysis. The following table will show the result of these analyses:

Date	Odor Hot	Odor Cold	Color	Turbidity	Total Solids	Loss on Ignition	Mineral Residue	Nitrogen				Chlorine	Alkalinity	Iron	B. Coli Communis	Appearance on Ignition
								As Free Ammonia	As Albuminoid Ammonia	As Nitrites	As Nitrates					
Jan.	11	0	0	0	174	33	141	.012	.028	0.0	0.96	3.5	105.0	0.0	Absent	No Change
Feb.	14	0	0	0	182	38	144	.012	.016	0.0	0.96	3.0	103.0	0.2	"	"
Mar.	8	0	0	0	183	40	143	.012	.020	0.0	0.96	3.5	103.0	0.0	"	"
Apr.	10	0	0	0	178	38	140	.004	.004	0.0	1.04	4.0	101.0	0.0	"	"
May	10	0	0	0	181	38	143	.008	.050	0.0	1.08	0.0	101.0	0.0	"	"
June	13	0	0	0	181	36	145	.012	.018	0.0	1.04	3.0	100.0	0.0	"	"
July	13	0	0	0	164	30	134	.004	.008	0.0	1.04	3.0	97.0	0.0	"	"
Aug.	3	0	0	0	170	35	135	.012	.012	0.0	0.84	4.0	102.0	0.0	"	"
Sept.	19	0	0	0	166	20	146	.004	.004	0.0	0.92	4.0	101.0	0.0	"	"
Oct.	26	0	0	0	169	22	147	.008	.016	0.0	1.12	3.5	96.0	0.0	"	"
Nov.	15	0	0	0	176	26	150	.000	.008	0.0	1.00	3.5	106.0	0.0	"	"
Dec.	10	0	0	0	127	47	80	.080	.028	0.001	0.16	6.0	1.0	2.4	1000	"
1910																
Average	0	0	0	0	171	34	137	.014	.018	.00008	.92	3.70	92.5	0.2	"	"
1909																
Average	0	0	0	0	169	38	131	.009	.017	.00009	.71	3.9	97.5	0.0	"	"

PURE FOOD ACT

On October 1, 1908, a law which had been passed by the Legislature the previous year, went into effect. It was known briefly, as the Pure Food

and Drug Act, and its object, indicated by its title, was, "to secure the purity of foods, beverages, confectionery, condiments, drugs, and medicines, and to prevent deception in the distribution and sales thereof" to the people of New Jersey. This Act dealt with the quality of the foods and prescribed certain standards of purity.

Later [April 21, 1909] a supplement to this Act was passed [Chap. 231, P. L., 1909], requiring that all places where food was to be produced, manufactured, prepared, packed, stored or distributed, should be clean, well-lighted, etc., and the operations carried on in such places conducted in such manner that the wholesomeness of the food should not be impaired. The Act further provided that all food "be securely protected from flies, dust and dirt, and so far as the same is possible by the use of all reasonable means, from all other foreign or injurious contamination."

The problem thus undertaken was indeed a vital one and by no means insignificant in any sense. Before the passage of this act, the authority to inspect all places where articles of any kind [whether of food, clothing or machinery] were made, lay within the jurisdiction of the State Factory Inspector, and although this Department had inspections made of bakeries, markets and such places, no action could be taken if violations were found, nor was it possible to accomplish much from a sanitary standpoint. Power having been conferred on local boards of health by the Pure Food Act, to appoint inspectors for the purpose of enforcing its provisions, this Department began a campaign, this past year, against dirt, dust, and unwholesome conditions where the production, manufacturing, handling or keeping of foods intended for sale or distribution in the City of Plainfield, was concerned.

An inspection was made of stores, markets, fruit stands, etc., and also of wagons used by peddlers or producers, and an abstract of the law furnished to all dealers. 243 of these were posted, as follows:

- 14 bakeries
- 27 butcher shops
- 27 confectioners
- 55 groceries
- 4 fish stores
- 7 fruit stands
- 16 ice cream manufacturers
- 20 restaurants and hotels
- 32 peddlers and hucksters
- 41 producers of fruits and vegetables

With the abstract, a letter of explanation was delivered and a time limit set when the Board would require a strict compliance with the law. At first, there was some opposition from the dealers, but when it was learned that it was the intention of the Board to enforce the law in *all* cases, and that the demands were not unreasonable, the dealers began to adjust themselves to the new conditions. Repeated inspections were, however, necessary, and in a number of instances, hucksters or farmer's wagons had to be sent

back. The co-operation of those concerned was secured without any serious trouble and the results obtained were most gratifying. Not only is this latter true of this Department, but also of the dealers themselves and the general public.

Instead of buying fruits, vegetables and other foods that are covered with germ-laden dust and to which flies have had free access, the people now find the food carefully protected from dust and flies. The old-time fruit stands have been replaced by glass cases and many other objectionable practices discontinued.

The places where foods are made, stored, etc., have had an equal share in our careful attention, and changes are being wrought in these places and in the methods employed, that are very pleasing. In trying to enforce the law, cleanliness and all it involves has been our watchword. And although much, very much, has been accomplished in one short season, there is still a great deal to do.

Much credit is due the dealers and manufacturers for their co-operation with this Department in bringing about the present results. It has been no small thing in many cases, to make the necessary changes, and their efforts have been appreciated.

Realizing that flies play an important part in the transmission of certain diseases, it is not enough that the food be protected from contamination by them; the flies themselves should be eradicated by abolishing their breeding places. As manure piles and such collections of filth are the most favorable place for the hatching of the fly larvae, notices were served on a great many stable owners to see that the manure was stored in a properly covered pit to which flies would have no access. 408 inspections and reinspections of stables were made for this purpose. This phase of the work will be taken up again early in the coming year, and continued until the storing of manure in the open yard is a practice of the past.

Respectfully submitted,

L. R. THURLOW,
Health Officer

JOHN O'BRIEN, JR.,
Assistant Health Officer.

REPORT OF ALMS COMMITTEE

Plainfield, N. J., December 31, 1910.

To the Honorable, the Common Council of the City of Plainfield:

GENTLEMEN:—Your Alms Committee wishes to report as follows for the year just closing, December 31, 1910.

January 1, 1910, Balance.....	\$182 97
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RECEIPTS:

June 30, Police Dept., Hay.....	\$45 20
Aug. 30, Hay.....	20 00
Sept. 30, Hay and Straw.....	30 60
Nov. 30, Police Dept., Hay.....	19 90
Dec. 20, Stalks.....	27 90

\$143 60

Taxes:

Prior to 1909.....	\$ 1 08
Year of 1909.....	1,443 90
Cont. Fund.....	136 85
Year of 1910.....	6,793 93

\$8,375 76

Bills Payable.....	\$1,000 00
Transferred from General Fund.....	2,000 00

\$11,702 33

DISBURSEMENTS:

Payments.....	\$7,794 66
Bills Payable.....	2,000 00
Bills Payable.....	1,500 00
Balance, December 31, 1910.....	407 67

\$11,702 33

SUMMARY

Balance.....	\$ 407 67	
Uncollected Taxes 1910.....	1,750 40	
		\$2,158 07
Bills Payable.....	\$1,000 00	
Balance.....	1,158 07	
		\$2,158 07
Total balance over all expenses.....		\$1,158 07

The expenses of this department for the year 1910 have been as follows:

CITY ALMS HOUSE

Salary of Superintendent and Matron.....	\$480 00	
Food and Provisions.....	1,074 04	
City Water.....	27 00	
Fuel.....	335 64	
Clothing.....	139 24	
Repairs.....	166 63	
Services.....	504 81	
Utensils and Supplies.....	503 06	
Burials.....	15 00	
Barber.....	49 20	
Expenses of Superintendent.....	12 43	
Insurance on Buildings and Stock, 3 years.....	128 75	
		\$3,435 80

OUTSIDE POOR

Provisions.....	\$373 27	
Fuel.....	20 50	
Rents.....	431 50	
Board and Care.....	423 41	
Insane.....	116 35	
Transportation.....	60 94	
Burials.....	10 00	
Professional and other services.....	48 81	
		\$1,484 78
		\$4,920 58

Overseer of Poor.....	\$ 800 00	
Salary of City Physician.....	400 00	
Muhlenberg Hospital, care Indigents.....	1,500 00	
Telephone Service.....	28 31	
Interest on Notes.....	102 08	
Stationery, Stamps and Printing.....	19 65	
Horse.....	80 00	
		\$2,930 04
Total Disbursements.....		
		\$7,850 62

INMATES CARED FOR AT THE CITY ALMS HOUSE DURING THE YEAR 1910

	<i>Male</i>	<i>Female</i>	<i>Total</i>
Inmates in City Alms House at last report, December 31, 1909.....	9	4	13
Number received at City Alms House during the year 1910.....	3	1	4
Total.....	12	5	17
	<i>Male</i>	<i>Female</i>	<i>Total</i>
Number disposed of during the year 1910.....	1	0	1
Number of deaths at City Alms House during 1910	1	1	2
Total.....	2	1	3
Total remaining in Alms House, Dec. 22, 1910...	10	4	14

The following is a list of what was produced on the Farm for the year 1910:

50 bushel Tomatoes	8 bushel String Beans
10 tons Hay	40 bushel Lima Beans
4 tons Straw	6 bushel Beets
680 bushel Field Corn	200 Peppers
2000 bundles Corn Stalks	2 bushel Shell Dried Lima Beans
4000 ears Sweet Corn	65 bushel Turnips
60 bushel Potatoes	6 bushel Carrots
30 bushel Sweet Potatoes	20 bushel Apples
70 Pumpkins	4 bushel Plums
150 Cabbages	2 bushel Peas
1½ bushel Dried Beans	377½ Eggs
200 Squashes	150 pounds Butter
100 Cucumbers	155 Chickens
9 bushel Green Peas	700 pounds Pork
14 bushel Onions	52 bushel Rye

No account kept of green onions, lettuce, radishes, kale and spinach.

All the milk used at the City Alms House for the year was produced on the Farm.

The following is an Inventory of the Farming Utensils, etc.:

1 Single Harness	3 Plows
1 Cart Harness	2 Harrows
1 Team Harness	1 Manure Spreader
1 Team Wagon	1 Corn Planter
1 Dump Cart	1 Seed Planter
1 Horse Box Wagon	2 Horses
1 Hay Rake	2 Cows
1 Sweep Mill	

OUTSIDE POOR CARED FOR DURING THE YEAR

Applicants receiving provisions.....	14
Released or dropped as not worthy.....	12
Number receiving provisions at the present time.....	2
Board and care.....	10
Released or dropped.....	5
Number receiving board and care at present time.....	5
Burials.....	1
Fuel.....	7
Patients sent to Muhlenberg Hospital through Poor Department....	3
Patients sent to Muhlenberg Hospital through Police Department....	6
Attention given to Insane in Poor Department.....	13
Attention given to Tuberculosis cases.....	3
Attention given to Tuberculosis, died.....	1
Given transportation home.....	2
Still remaining charged on city.....	0
Transportation to South.....	6
Transportation to miscellaneous places.....	38
Referred to Charity Organization Society.....	27
Application for Work.....	2
Investigated and put to work on streets.....	2
Temporary aid given.....	24
Advice given.....	121
Medical attendance given.....	408
Services of the City Nurse—City Alms House.....	28
Desertion and wilful non-support cases in court.....	8
Wilful non-support cases settled out of court.....	33
Desertions of husbands still pending.....	2
Bastardy proceedings in court.....	4
Bastardy cases settled out of court.....	2
Children disposed of by Overseer.....	1

Calls made by Overseer at the City Alms House.....	203
Calls made by the City Physician at the City Alms House.....	47
Calls made by the City Physician outside.....	130
Communications received by the Overseer.....	207
Communications answered by Overseer.....	164
Calls made by the Overseer outside.....	173
Calls at office and home of Overseer.....	429

The Overseer would call attention to the Report of the City Physician which is part of the work of this Department.

FRANK D. RANDOLPH
DUNCAN W. TAYLOR,
WM. W. WILSON,

Alms Committee.

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REPORT OF CITY PHYSICIAN

Plainfield, N. J., December 31, 1910.

To the Honorable, the Mayor, and Members of the Common Council, City of Plainfield, New Jersey.

GENTLEMEN:—Herewith is submitted a report of the work of The City Physician, for the year ending December 31, 1910.

The following named persons, with their families, regularly receive the services of the City Physician:

<i>Name</i>	<i>Address</i>	<i>Sex</i>	<i>Color</i>	<i>Condition Demanding Treatment</i>	<i>Visits</i>	<i>Results</i>
Martin Gaglien	S. 2nd St.	Male	White	Ch. Nephritis	60	Improved
Rachel Garfinkle	W. 3rd St.	Female	White	Ch. Rheumatism	2	Improved
Clarkson Mundy	S. 2nd St.	Male	White	Rheumatism and Bronchitis	17	Recovery
Nixon Morris	W. 4th St.	Male	Col.	Ch. Rheumatism	12	Improved
Alexander Jewell	Park Ave.	Male	Col.	Ch. Endocarditis	3	Died
Jakalo Ansinio	E. 4th St.	Male	Col.	Grip	3	Recovery
James Muldowney	Liberty St.	Male	White	Pul. Tuberculosis	7	Improved
Thomas Wallace	307 Pl'd Ave.	Male	White	Pul. Tuberculosis	3	Died
Josiah Dunham	W. 3rd St.	Male	Col.	Pul. Tuberculosis	4	Died
Richard Payne	Cottage Pl.	Male	Col.	Ch. Endocarditis	4	Improved
Mrs. Kirkman	534 W. 2nd St.	Female	White	Varicose Ulcer Leg Grip and Indigestion	4	Recovery
Margaret Sheldon	309 W. 2nd St.	Female	White	Metrorrhagia	2	Un-improved
John Tobin	449 W. 3rd St.	Male	White	Ch. Endocarditis	4	Improved
Mrs. James White	W. 3rd St.	Female	White	Anaemia	5	Recovery

Forty-seven visits have been made to the City Alms House during the year, and the following named inmates cared for:

<i>Name</i>	<i>Sex</i>	<i>Color</i>	<i>Condition requiring treatment</i>
Sarah Neill	Female	White	Feeble Minded
Amelia Willabald	"	"	Partial Paralysis
Annie Casey	"	"	Disability due to Chronic Rheumatism, and faulty union of old fracture of neck of femur
Annie Sullivan	"	"	Laryngitis
Patrick Donovan	Male	"	Chronic Rheumatism
Samuel Vermule	"	"	Old Age
Al Pound	"	"	Congenital Deformity
Sam. Pound	"	"	Congenital Deformity

<i>Name</i>	<i>Sex</i>	<i>Color</i>	<i>Condition requiring treatment</i>
Henry Mellman	Male	White	Chronic Cystitis and double Inguinal Hernia
Sebastian Miller	"	"	Chronic Rheumatism
Jesse Bush	"	"	Chronic Rheumatism
Just. Jathier	"	"	Chronic Rheumatism
Joseph Miller	"	"	Exposure and lack of food and care
Richard Osborne	"	Col.	Old Age
Alexander Jewell	"	"	Chronic Endocarditis.

Two deaths have occurred within the Alms House during the year, viz:

<i>Name</i>	<i>Sex</i>	<i>Color</i>	<i>Cause</i>
Alexander Jewell	Male	Colored	Chronic Endocarditis
Annie Sullivan	Female	White	Dilation of heart

The following named patients have, through the Poor Department, been committed to The New Jersey State Hospital at Morris Plains:

<i>Name</i>	<i>Sex</i>	<i>Color</i>
Rosina Pierce	Female	Colored
James White	Male	White
Lena Wolfe	Female	White
Crafton N. Norris	Male	White

During the year three patients were admitted to Muhlenberg Hospital through the Poor Department, viz.:

<i>Name</i>	<i>Sex</i>	<i>Color</i>	<i>Condition Requiring Treatment</i>
Dennis Carney	Male	White	Cancer of Jaw
James Boyd	Male	White	Abscess of Knee
Mrs. Wallace	Female	White	Exposure and Neglect

In addition to the above described work the City Physician has made one hundred and seven visits on behalf of the Poor Department, to patients residing within the City. This is unclassified, recorded as Miscellaneous, and covers a wide variety of both medical and surgical cases.

During the year two deaths have occurred among the City's charges living without the Alms House, viz.:

<i>Name</i>	<i>Sex</i>	<i>Color</i>	<i>Cause of Death</i>
Josiah Dunham	Male	Colored	Pulmonary Tuberculosis
Thomas Wallace	Male	White	Pulmonary Tuberculosis

Four visits were made on behalf of the Health Department to patients suffering with Diphtheria. Cultures were taken and the department notified when recovery took place.

The members of the 101 Ranch Wild West Show were examined for the presence of communicable disease, prior to their exhibition in this City.

POLICE DEPARTMENT

Thirteen candidates for appointment to the Police Department have been examined during the year, viz.:

Maurice Pollen
 Fletcher L. Cregar
 Peter Dooley
 Thomas McInerney
 James Kane
 Martin Galbraith
 Harry Berlowitz
 Earle Smith
 John Kelly
 Joseph Dunlap
 Richard O'Neill
 Ferdinand Baeder
 Charles B. Wicht

Six officers, after having reported sick, were examined and a report of the examination forwarded to the Chief of Police.

During the year five patients were admitted to Muhlenberg Hospital through the Police Department.

<i>Name</i>	<i>Color</i>	<i>Condition Requiring Treatment</i>
J. E. Williams	White	Concussion of Brain
Tony Barlett	White	Stab Wound of Abdomen
Frank Wells	Colored	Injured by Locomotive
P. J. Burns	White	Sub Acute Rheumatism
Daniel Carrol	White	Scalp Wound

Seventy visits have been made, in addition to the above, to Police Headquarters, the work covering a variety of cases, principally surgical.

Respectfully submitted,

C. B. LUFBURROW,

City Physician.

REPORT OF SHADE TREE COMMISSION

Plainfield, N. J., December 28, 1910.

To the Honorable, the Common Council of the City of Plainfield, N. J.,

The Shade Tree Commission begs to submit the following report for the year 1910:

GENTLEMEN:—Perhaps the most important work of the commission has been the protection of the elm trees from the attacks of the beetle that has become so destructive since it first appeared a few years ago, entirely destroying trees where systematic spraying has not been done year after year. Upwards of 1,110 street trees were treated this year with arsenate of lead, in addition to some 65 on private grounds. Mr. R. P. Gay, The Munson-Whittaker Company and others have also done considerable private spraying—much more than the commission has. There were still, however, many trees on private grounds, especially on vacant lots, and on grounds of the Central Railroad Company of New Jersey that were not sprayed. Such trees turned brown and dropped their leaves early in the summer, forming a marked contrast to trees that were properly sprayed.

The work of removing over-crowded and deformed trees has been continued, about 90 of such trees being removed this year. There is much more of this work that should be done, for we have many trees that are crowding and interfering with valuable shade trees on our streets. The trees in many cases stand altogether too near each other, and it is surprising to see how the removal of a poor, ill-shaped tree here and there will bring out the beauty of the more perfect specimens that are left. One poor tree in a row detracts greatly from the beauty of the others and seems to stand out more prominently than the more perfect specimens.

Much attention has been given to trimming and we have started out to systematically cover the whole city. A large amount of work has been done this year on the following streets: East and West Seventh Streets, East and West Ninth Streets, East and West Fifth Streets, West Eighth Street, West Fourth Street, South Second Street, Carlton Avenue, Richmond Street, Park Avenue, Grant Avenue, South Avenue, East Second Street, Watchung Avenue, Prospect Avenue, East and West Front Streets, Madison Avenue,

Central Avenue, Westervelt Avenue, Stelle Avenue, Belvidere Avenue, and Muhlenberg Place, besides a few trees here and there that were especially in need of trimming in other parts of the city.

Considerable cement work has also been done this year, both on city trees and on private grounds. This is the first work of this kind that has been attempted by the commission, and consists of treating antiseptically the cavities found in trees after removing all the diseased wood, and then filling the cavity with cement mortar in such a way that the new wood and bark will entirely grow over the scar, thus protecting the tree from future decay and greatly improving its appearance. Some especially good work has been done on the big elm at Watchung Avenue and East Seventh Street. It is planned to do considerable more work of this kind next year.

We are glad to observe each year an increased interest in the better care of our city trees, of which all are justly proud. They, however, each year require an increased amount of care to protect them from borers, beetles, scales and insects innumerable. In this warfare, plenty of sunlight, water and fertilizer are great aids. It is suggested that owners sprinkle the ground under the trees with some fine ground bone and wood ashes early in the Spring and see how the trees and grass will respond to the treatment. It will do no harm to repeat this every two or three weeks up to the first or middle of June. It will show in the greater luxuriance of the foliage.

Trees were planted this year on West Eighth Street, where needed, from Arlington Avenue to Grant Avenue, and on Grant Avenue, from West Eighth Street to West Front Street. A few trees were also planted in the city park to take the places of the chestnuts that have been killed by the fungus that is fast removing the chestnut trees in this vicinity, and for which there has as yet been found no remedy.

The trees planted this year were mostly sugar maples, though a few Oriental Planes and Basswoods have also been used.

The committee respectfully submits the following account of its receipts and expenditures for the year 1910:

RECEIPTS

Regular appropriation.....	\$2,500 00
Appropriation for care of Park.....	200 00
Sale of wood, spraying, trimming, cementing and removing trees for property owners.....	447 18
Cost of setting out new trees, charged to property owners.....	189 21
Total.....	\$3,336 39

ANNUAL REPORT

DISBURSEMENTS

Care of City Park.....	\$ 300 00
Spraying trees, 1909 account.....	104 17
Spraying trees, 1910.....	790 88
Trimming, removing and cementing trees.....	1,284 00
Hauling manure, wood, brush, etc.....	345 19
Watering and mulching new trees and setting out new trees to replace dying ones.....	125 78
Tools, supplies, etc.....	142 44
Work at tree nursery.....	21 00
Tree maps, traveling expenses, etc.....	25 55
Cost of setting out new trees, charged to property owners...	189 21
Total.....	\$3,328 22

Respectfully submitted,

MILES ROBERTS,
JAMES L. GREENLEAF,
ANDREW J. GAVETT,
Commissioners.

REPORT OF CITY JUDGE.

To the Honorable the Common Council of the City of Plainfield,

GENTLEMEN:—I have the honor to submit herewith my annual report as City Judge for the year 1910, as follows:

No. cases disposed of.....		943
No. sentences suspended.....	639	
No. fined.....	143	
No. committed to County Jail.....	41	
No. placed in charge of Probation Officer.....	14	
No. committed to await action of Grand Jury.....	46	
No. held under bond to await action of Grand Jury..	19	
No. cases pending.....	16	
No. held for Juvenile Court.....	2	
No. cases dismissed.....	20	
No. under bonds.....	3	
Total.....		943
Amount of fines collected.....		\$925 00

DISBURSMENTS

1910	
January 28, S. P. C. A., amount fine collected.....	\$ 5 00
June 4, Thos. O'Gorman, expenses.....	5 20
June 29, P. S. Kiely, expenses.....	28 25
June 29, J. J. Flynn, half gambling fine.....	25 00
July 30, S. P. C. A., amount fine collected.....	10 00
December 10, S. P. C. A., for three fines.....	28 00
December 20, J. B. R. Smith, automobile fine.....	15 00
December 20, P. S. Kiely, expenses.....	31 25
	\$147 70
Check given to City Treasurer for balance.....	\$805 30

This check last mentioned, as will be seen, is too large by \$28.00, and was given upon the supposition that the check dated December 10, 1910, to the order of the S. P. C. A. had been presented for payment. The actual balance for use of the City is the sum of \$777.30, and payment of \$28.00 should be made by the proper authorities to the S. P. C. A.

This, gentlemen, concludes my twelfth and last annual report as City Judge. Despite much that has been sordid and miserable, disappointing

and disheartening in the line of my work as a Police Judge for the twelve years last past, I must confess that a great deal of real pleasure has been my portion in that time. I have tried at all times to administer the office, not for increasing city revenues nor for the working of hardships, but rather as an agency for the uplift and regeneration of that portion of our community which has had but little chance, and whose frailties are but the natural results of economic conditions the world over.

I desire to pay my tribute of praise to the four Mayors under whom I have served for their generous spirit of co-operation and help; to the various Councils who have treated me with uniform courtesy; to the various other City Officials who have always rendered assistance when asked, and to all the officers and members of the Police Force.

And may I take this opportunity to make public acknowledgment of my indebtedness to Chief Kiely and to Mr. Ayers, Overseer of the Poor. Brought into almost daily contact with them I cannot speak too highly of the way in which each has administered his office. They have rendered me invaluable aid at all times, and I cannot help but feel that the city is indeed fortunate in possessing officials who are faithful in all things great and small.

With best wishes to you all, I beg to remain,

Respectfully yours,

WM. N. RUNYON,
City Judge.

December 28, 1910

REPORT OF BOARD OF PLAY GROUND COMMISSIONERS.

To the Honorable, the Common Council of the City of Plainfield, N. J.,

GENTLEMEN:—I beg to submit herewith the First Annual Report of the Board of Play Ground Commissioners.

The figures showing the attendance at the two Play Grounds are as follows:

BRYANT SCHOOL GROUNDS, open 48 days, total attendance 6,009 children, average daily attendance 125.

FRANKLIN SCHOOL GROUNDS, open 54 days, total attendance 5,935 children, average daily attendance 109.

Grand total 11,944 in attendance at both Play Grounds.

The average age of children attending was about 8 years.

The interest of parents in the movement is reflected in the fact, that over 300 parents visited the Franklin School grounds, and over 200 visited the Bryant School grounds.

Annexed hereto, is the Treasurer's report, showing balance on hand, December 26, \$1,298.19.

From the result of the first year's existence of the Play Grounds in Plainfield, it can be said, that hundreds of restless children have been saved from too much idleness, with the attendant possibilities of wrong doing.

Through a varied and interesting programme of out-door games and exercises, increased physical power, carrying with it protection against disease, and with greater ability to work and endure has been made possible for these children.

The mental training of the child is continued on the Play Ground, where the child is constantly provided for opportunities of self expression and self activity.

A most excellent moral and spiritual influence has been thrown around the children at the Play Grounds, through the personal association with the Supervisors, the Misses Harriet E. Moe and Mary Leonard Childs.

This means an effect upon the character of the child which must necessarily result in better scholarship in the schools, and preparation for good citizenship, when the boy and girl reaches maturity.

During 1911, the Board of Play Ground Commissioners are hopeful of obtaining far greater results, and trust they will be able to equip the Irving and one other school-yard with play ground apparatus, and in addition to this, the complete equipment of the Parker Play Ground, located on Randolph Road, near Woodland Avenue.

Mr. Parker has about finished the construction of the Athletic Field, and part of this ground will be equipped by the Commissioners, with Play

Ground apparatus for both girls and boys.

The Common Council for 1911 will have submitted to it, full details as to expenses for the coming year, as to equipment and maintenance and at that time we will petition the Council for such funds as are necessary to carry on the work.

Respectfully submitted for the Board of Play Ground Commissioners,

GEORGE P. MELICK, President,
GEO. L. BABCOCK, Treas.,
HARRY W. MARSHALL,
CHAS. B. MORSE,
LINDSEY BEST.

HERBERT E. PARKER, Secretary,

Board of Play Ground Commissioners.

PLAY GROUND COMMISSION.

TREASURER'S REPORT

Year Ending December 31, 1910.

RECEIPTS

H. E. Parker.....	\$1,743 87
Mr. Glenny.....	5 00
City.....	1,000 00
Credit on Check No. 2.....	40
Bank Interest.....	15 44

\$2,764 71

DISBURSEMENTS

Salaries:

Miss Moe.....	\$180 00
Miss Childs.....	150 00
Frank Kelso, Janitor.....	50 00
John Skull, Janitor.....	50 00

\$430 00

Play Ground Apparatus and Equipment:

A. G. Spalding & Co.....	\$633 74
Boice, Runyon & Co., Sand.....	33 00
Harry Dreier, Base Balls	8 50
A. M. Griffen, Chain.....	1 75
Shirley & Johnson, Canvass Covers.....	14 50
A. M. Griffen, 2 Drinking Fountains.....	68 00
Rimmer, Apgar & Cuzon, Sand Boxes, Posts, etc..	77 77
Alexander Milne, Platform.....	74 00

\$911 26

Supplies:

Miss Childs.....	\$3 98
P. B. Hodge.....	1 00
A. M. Griffen.....	10 51
J. W. Schemerhorn.....	8 51
Boice, Runyon & Co.....	60
Mulford Estil.....	50

\$25 10

Sundries:

Printing.....	\$8 50
Play Ground games, and moving pole.....	10 91
Cartage.....	4 00
Painting.....	11 35
Dr. H. D. Corbusier.....	4 50
H. E. Parker.....	19 90
H. E. Parker, by vote of commission.....	50 00

 \$109 16

Balance on hand.....

\$1,475 52

 1,298 19

 \$2,764 71

Respectfully submitted,

GEORGE L. BABCOCK,

Treasurer.